

Memorandum

Florida Department of Environmental Protection

TO: Michael Cooke

THRU: Trina Vielhauer *TV*
Jeff Koerner *JK*

FROM: Bruce Mitchell *BM*

DATE: April 6, 2006

SUBJECT: JEA
Northside Generating Station/St. Johns River Power Park
Final Air Construction Permit
0310045-015-AC/PSD-FL-010G/PSD-FL-265C

Attached is the Final Air Construction Permit, Project No. 0310045-015-AC/PSD-FL-010G/PSD-FL-265C.

The subject of the AC permit is: **(1)** revise Table 6 – Part B (PSD-FL-010C), to better describe the fugitive and minor source emissions units/points and to replace the perceived particulate matter (PM/PM₁₀) emission standards with visible emission standards, which shall also be used for compliance purposes, and to recognize the same changes to the PSD permit's text contained in the Title V permit; **(2)** allow the removal of a baghouse control system associated with four minor transfer points within the Rotary Railcar Dumper Building (RRDB) and continue the current practice of using wet suppression to control the fugitive emissions of particulate matter when handling, loading and unloading materials (note: the RRDB is domed and mostly enclosed); **(3)** modify the excess emissions language related to the JEA's NGS CFB Units Nos. 1 and 2; and, **(4)** clarify data substitution related to compliance demonstration for SO₂ and NO_x for JEA's NGS Units Nos. 1 and 2.

There were no comments received during the 14-Day Public Notice period, which concluded on March 30th. Therefore, it is recommended that the permit be signed as noticed.

Attachments

MGC/tlv/jk/bm

NOTICE OF FINAL AIR CONSTRUCTION PERMIT

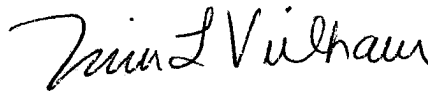
In the Matter of an
Application for Permit:

Mr. James M. Chansler, P.E., D.P.A.	Permit Project No.: 0310045-015-AC/PSD-FL-010G/PSD-FL-265C
	St. Johns River Power Park/Northside Generating Station
JEA 21 West Church Street Jacksonville, Florida 32202	Duval County

Enclosed is the Final Air Construction Permit, No. 0310045-015-AC/PSD-FL-010G/PSD-FL-265C. The subject of the permit is to: (1) revise Table 6 – Part B (PSD-FL-010C), to better describe the fugitive and minor source emissions units/points and to replace the perceived particulate matter (PM/PM₁₀) emission standards with visible emission standards, which shall also be used for compliance purposes, and to recognize the same changes to the PSD permit's text contained in the Title V permit; (2) allow the removal of a baghouse control system associated with four minor transfer points within the Rotary Railcar Dumper Building (RRDB) and continue the current practice of using wet suppression to control the fugitive emissions of particulate matter when handling, loading and unloading materials (note: the RRDB is domed and mostly enclosed); (3) modify the excess emissions language related to the JEA's NGS CFB Units Nos. 1 and 2; and, (4) clarify data substitution related to compliance demonstration for SO₂ and NO_x for JEA's NGS Units Nos. 1 and 2. This permit is issued pursuant to Chapter 403, Florida Statutes (F.S.). There were no comments received during the Public Notice period.

Any party to this order has the right to seek judicial review of the permit (letter) pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Legal Office; 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 of Appeal must be filed within 30 (thirty) days from the date this Notice is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.



Trina L. Vielhauer
Chief
Bureau of Air Regulation

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

Mr. James M. Chansler, V.P., Operations & Maint.

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Postmark
Here

Sent To	Mr. James M. Chansler, V.P., Operations & Maint.
Street, Apt. No., or PO Box No.	21 West Church Street
City, State, ZIP+4	Jacksonville, Florida 32202

CERTIFICATE OF SERVICE

Permit Project No.: 0310045-015-AC

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF FINAL AIR CONSTRUCTION PERMIT (including the Final Determination and the Final Permit) was sent by certified mail (*) or sent by U.S. mail or electronically (Received Receipt requested) before the close of business on 4/7/06 to the person(s) listed or as otherwise noted:

Mr. James M. Chansler*, P.E., D.P.A., V.P., Operations and Maintenance, Responsible Official and Designated Representative, JEA
Mr. Bert Gianazza, P.E., JEA, Application Contact
Mr. Hamilton Oven, P.E., DEP-SCO
Mr. Richard Robinson, P.E., ERMD-EQD
USEPA, Region 4

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to §120.52(7), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Paulina J. Friday 4/7/06
(Clerk) (Date)

Final Determination

JEA

St. Johns River Power Park/Northside Generating Station

Air Construction Permit No.: 0310045-015-AC/PSD-FL-010G/PSD-FL-265C

An "INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT AND A TITLE V AIR OPERATION PERMIT REVISION" to the JEA's St. Johns River Power Park/Northside Generating Station located at 4377 Heckscher Drive, Jacksonville, Duval County, was clerked on March 2, 2006. The "PUBLIC NOTICE OF INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT AND A TITLE V AIR OPERATION PERMIT REVISION" was published in The Florida Times-Union on March 16, 2006. The Draft Air Construction Permit was available for public inspection at the City of Jacksonville's Environmental Resource Management Department - Environmental Quality Division in Jacksonville and the permitting authority's office in Tallahassee. Proof of publication of the "PUBLIC NOTICE OF INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT AND A TITLE V AIR OPERATION PERMIT REVISION" was received on March 31, 2006.

There were no comments received during the 14-Day Public Notice period. Therefore, it is recommended that the Final Air Construction Permit be issued as drafted and noticed.



Jeb Bush
Governor

Department of Environmental Protection

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Colleen M. Castille
Secretary

April 6, 2006

CERTIFIED MAIL – Return Receipt Requested

Mr. James M. Chansler, P.E., D.P.A.
V.P., Operations and Maintenance and Responsible Official
JEA
21 West Church Street
Jacksonville, Florida 32202

Re: Final Air Construction (AC) Permit Project Nos.: 0310045-015-AC/PSD-FL-010G/PSD-FL-265C
Affected AC Permits Nos.: 0310045-003-AC/PSD-FL-010/PSD-FL-265, PSD-FL-010C, and 0310045-012-AC/
PSD-FL-010E
Affected Siting Permit No.: PA 81-13
JEA: Northside Generating Station and St. Johns River Power Park

Dear Mr. Chansler:

The subject of this permit (letter) is to:

1. Revise "Revised Table 6 – Part B" (PSD-FL-010C), as follows:
 - a. Better describe the fugitive and minor source emissions units/points and to remove the emissions limits for PM/PM₁₀, including those controlled by a baghouse control system, because they were imposed from values established for the modeling evaluation; in addition and due to this direction, changes will be made to some conditions established in AC permit No. 0310045-012-AC/PSD-FL-010E;
 - b. Change the visible emission limit from "10% opacity" to "5% opacity" for those minor emissions units/points controlled by a baghouse control system;
 - c. Add minor emission units/points to the table that have been identified by the applicant that were built and exist in these operations, but had not yet been identified in previous permits (in the table, see those emission units/points identified in "*Italics*");
 - d. Allow a change to the Rotary Railcar Unloader & Transfer Points operation within the Rotary Railcar Dumper Building (RRDB) at the JEA's St. Johns River Power Park (SJRPP) [specifically, allow the removal of a baghouse associated with the four transfer points within the RRDB and continue the current practice of using wet suppression to control emissions of particulate matter when handling, loading and unloading materials; in addition, the RRDB is domed and mostly enclosed]; and,
 - e. Establish that the visible emission limits established in Revised Table 6 – Part B, SJRPP: Materials Handling and Storage Operations shall be used for compliance purposes.
2. Recognize the opacity changes related to the emissions units in the permit, No. PSD-FL-010, and the Revised Table 6 – Part B (PSD-FL-010C); also, the specific condition (#3) will establish that the visible emissions tests shall be used for compliance purposes.
3. Change the excess emissions language related to the JEA's NGS CFB Units Nos. 1 and 2 that was established in the AC permit No. 0310045-003-AC/PSD-FL-265 (see condition No. 26); and,
4. Change the specific conditions related to compliance demonstration for SO₂ and NO_x for the JEA's NGS CFB Units Nos. 1 and 2, specifically remove the use of missing data substitution, which is acceptable for purposes for Acid Rain allowances, to avoid the conflict when determining the compliance average with the emission limit and the associated timeframe that was established in AC permit, No. 0310045-003-AC/PSD-FL-265 [see conditions Nos. 31.(a) and 32.(a), respectively].

"More Protection, Less Process"

Printed on recycled paper.

Therefore, the following are changed:

1. PSD-FL-010C: Table 6 – Part B (SJRPP) and associated text in 0310045-011-AV pursuant to PSD-FL-010.

The Department finds the following requests acceptable because there are no apparent changes in actual emissions and the changes that are being recommended are more reflective of what actually exists at the JEA's SJRPP facility for the materials handling and storage operations:

- a. Change the title of the table from "Table 6 – Part B" to "Revised Table 6 – Part B, SJRPP: Materials Handling and Storage Operations" (attached) and adding other minor emission units/points to the table that have been identified by the applicant that were built and exist in these operations, but had not yet been identified in previous permits (in the table, see those emission units/points identified in "*Italics*");
- b. Removal of the PM/PM₁₀ emissions limits for the emissions units/points 4 thru 19 [Revised Table 6: PSD-FL-010 (10/28/86)], including those controlled by a baghouse control system, because they were imposed from values established for a modeling evaluation;
- c. Change the allowable visible emissions limits from "10% opacity" to "5% opacity" for those minor emissions units/points controlled by a baghouse control system;
- d. Continue the air quality control system requirement of "wet suppression" for fugitive PM emissions control from the Rotary Railcar Unloader – Fuel Transfer Points (formerly DC-1) [see Emissions Unit No. -023a (formerly #19 (Revised Table 6: PSD-FL-010 (10/28/86))]. In addition, the "Railcar Rotary Dumper – Building Emissions" and the "Rotary Railcar Unloader – Fuel Transfer Points (formerly DC-1)" will be combined and be considered as one emissions unit operation (EU No. -023a) and renamed as the "Rotary Railcar Dumper Building – Unloading and Transfer Points"; and,
- e. Establish that the visible emission limits are to be used for compliance purposes (see foot notes).

Therefore, the following are changed:

FROM:

Table 6 – Part B (SJRPP PSD Permit: PSD-FL-010C). (attached)

TO:

Revised Table 6 – Part B. SJRPP: Materials Handling and Storage Operations. (attached)

In addition and for purposes of continuity, the Department is also going to reflect changes of Title V specific conditions that are due to the miscellaneous changes requested for the table and are derived from PSD permit, No. PSD-FL-010, as follows:

FROM:

1. SC E.1. of 0310045-011-AV.

E.1. Revised Tables 2 and 6, PSD-FL-010, amended October 28, 1986, are incorporated by reference (attached) for emissions units 1 thru 16 and 4 thru 17, respectively.
[PSD-FL-010, amended October 28, 1986]

2. SC E.3. of 0310045-011-AV.

E.3. Controls. The permittee shall maintain and continue to use the control systems and control techniques established to minimize particulate matter emissions from emissions units 4 thru 17 in Revised Table 2, PSD-FL-010, amended October 28, 1986.
[Rules 62-4.070 and 62-212.400(6), F.A.C.; Part IV, Rule 2.401, JEPB; PSD-FL-010; and, PSD-FL-010, amended October 28, 1986]

3. SC E.4. of 0310045-011-AV.

E.4. Visible Emissions. An owner or operator shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal, visible emissions greater than 10 percent opacity, as established in Revised Table 6, PSD-FL-010, amended October 28, 1986.
[PSD-FL-010 and BACT; PA 81-13; and, PSD-FL-010, amended October 28, 1986]

4. SC E.5. of 0310045-011-AV.

E.5. Particulate Matter. Particulate matter emissions shall not exceed the limits established in Revised Table 6, PSD-FL-010, amended October 28, 1986.

[Rules 62-4.070 and 62-212.400(6), F.A.C.; Part IV, Rule 2.401, JEPB; and, PSD-FL-010, amended October 28, 1986]

5. SC E.9. of 0310045-011-AV.

E.9. Visible Emissions. EPA Method 9 and the procedures in 40 CFR 60.11 shall be used to determine opacity compliance pursuant to Chapter 62-297, F.A.C., and 40 CFR 60, Appendix A. If the opacity limits are not met for those emissions units that exhaust through a stack, permit compliance shall be determined on the basis of mass emission rate tests. See specific condition E.10.

[40 CFR 60.252(c); and, PSD-FL-010 and PA 81-13]

6. SC E.10. of 0310045-011-AV.

E.10. Particulate Matter. In accordance with Chapter 62-297, F.A.C., EPA Method 5 shall be used to determine compliance with the particulate matter emission limitations established in Revised Table 6, PSD-FL-010, for emissions units 4 thru 17 that exhaust through a stack. If the opacity limits are not met for those emissions units that exhaust through a stack, permit compliance shall be determined on the basis of mass emission rate tests. See specific condition E.9.

[Rules 62-4.070 and 62-213.440, F.A.C.; Part V, Rule 2.501, JEPB; and, PSD-FL-010, amended October 28, 1986]

7. SC F.1. of 0310045-011-AV.

F.1. Revised Tables 2 and 6, PSD-FL-010, amended October 28, 1986, are incorporated by reference (attached) for emissions unit 18 (Table 2) and emissions unit 19 (Table 6).

[PSD-FL-010; PSD-FL-010, amended 10/28/1986; and, 0310045-012-AC/PSD-FL-010E]

8. SC F.3. of 0310045-011-AV.

F.3. Controls. The permittee shall maintain and continue to use the control systems and control techniques established to minimize particulate matter emissions from emissions unit 18 in Revised Table 2, PSD-FL-010, amended October 28, 1986.

[Rules 62-4.070 and 62-212.400(6), F.A.C.; Part IV, Rule 2.401, JEPB; PSD-FL-010; PSD-FL-010, amended 10/28/1986; and, 0310045-012-AC/PSD-FL-010E]

9. SC F.4. of 0310045-011-AV.

F.4. Visible Emissions. Visible emissions shall not exceed the following:

- a. Limestone and flyash handling systems 10% opacity
- b. Limestone transfer points 10% opacity
- c. Limestone silo 10% opacity
- d. Reserved.
- e. Flyash silos 10% opacity

[PSD-FL-010 and PA 81-13; and, 0310045-012-AC/PSD-FL-010E]

10. SC F.5. of 0310045-011-AV.

F.5. Particulate Matter. Particulate matter emissions shall not exceed the following:

- a. Limestone silo 0.05 lb/hr
- b. Limestone hopper/transfer conveyors 0.65 lb/hr
- c. Limestone transfer points 0.4 lb/hr
- d. Reserved.
- e. Flyash handling system 0.2 lb/hr

[Rule 62-212.400(6), F.A.C.; Part IV, Rule 2.401, JEPB; PSD-FL-010 and PA 81-13; and, 0310045-012-AC/PSD-FL-010E]

11. SC F.9. of 0310045-011-AV.

F.9. Visible Emissions. EPA Method 9 shall be used to determine opacity compliance pursuant to Chapter 62-297, F.A.C., and 40 CFR 60, Appendix A.

[Rule 62-213.440, F.A.C.; Part V, Rule 2.501, JEPB; and, PSD-FL-010 and PA 81-13]

12. SC F.10. of 0310045-011-AV.

F.10. Particulate Matter. In accordance with Chapter 62-297, F.A.C., EPA Method 5 shall be used to determine compliance with the particulate matter emission limitations established in Revised Table 6, PSD-FL-010, amended October 28, 1986, for emissions unit 19 that exhaust through a stack. If the opacity limits are not met for those emissions units that exhaust through a stack, permit compliance shall be determined on the basis of mass emission rate tests.

[Rules 62-4.070 and 62-213.440, F.A.C.; Part V, Rule 2.501, JEPB; PSD-FL-010; PSD-FL-010, amended October 28, 1986; and, 0310045-012-AC/PSD-FL-010E]

TO:

1. SC E.1. of 0310045-011-AV.

E.1. Revised Table 6 – Part B, SJRPP: Materials Handling and Storage Operations, is incorporated by reference (attached). [PSD-FL-010; BACT; PA 81-13; PSD-FL-010, amended 10/28/1986; PSD-FL-010C, clerked July 29, 1999; 0310045-012-AC/PSD-FL-010E; and, 0310045-015-AC/PSD-FL-010G]

2. SC E.3. of 0310045-011-AV.

E.3. Air Quality Control Systems (AQCS). The permittee shall maintain and continue to use the AQCS established in Revised Table 6 – Part B, SJRPP: Materials Handling and Storage Operations, to minimize particulate matter emissions.

[Rules 62-4.070(3) and 62-212.400(6), F.A.C.; Part IV, Rule 2.401, JEPB; PSD-FL-010; BACT; PA 81-13; PSD-FL-010, amended October 28, 1986; PSD-FL-010C, clerked July 29, 1999; 0310045-012-AC/PSD-FL-010E; and, 0310045-015-AC/PSD-FL-010G]

3. SC E.4. of 0310045-011-AV.

E.4. Visible Emissions. Visible emissions shall be used for compliance purposes and not exceed the opacity limits established in Revised Table 6 – Part B, SJRPP: Materials Handling and Storage Operations.

[PSD-FL-010; BACT; PA 81-13; PSD-FL-010, amended October 28, 1986; PSD-FL-010C, clerked July 29, 1999; 0310045-012-AC/PSD-FL-010E; and, 0310045-015-AC/PSD-FL-010G]

4. SC E.5. of 0310045-011-AV.

E.5. Reserved.

[0310045-015-AC/PSD-FL-010G]

5. SC E.9. of 0310045-011-AV.

E.9. Visible Emissions. Visible emissions tests shall be performed for the affected emissions points in Revised Table 6 - Part B, SJRPP: Materials Handling and Storage Operations for compliance purposes, in accordance with the testing frequency established in the table, and while using EPA Method 9, 40 CFR 60, Appendix A, and Chapter 62-297, F.A.C. [PSD-FL-010; PA 81-13; Part V, Rule 2.501, JEPB; and, 0310045-015-AC/PSD-FL-010G]

6. SC E.10. of 0310045-011-AV.

E.10. Reserved.

[0310045-015-AC/PSD-FL-010G]

7. SC F.1. of 0310045-011-AV.

F.1. Revised Table 6 – Part B, SJRPP: Materials Handling and Storage Operations, is incorporated by reference (attached). [PSD-FL-010; BACT; PA 81-13; PSD-FL-010, amended October 28, 1986; PSD-FL-010C, clerked July 29, 1999; 0310045-012-AC/PSD-FL-010E; and, 0310045-015-AC/PSD-FL-010G]

8. SC F.3. of 0310045-011-AV.

F.3. Air Quality Control Systems (AQCS). The permittee shall maintain and continue to use the AQCS established in Revised Table 6 – Part B, SJRPP: Materials Handling and Storage Operations, to minimize particulate matter emissions. [Rules 62-4.070(3) and 62-212.400(6), F.A.C.; Part IV, Rule 2.401, JEPB; PSD-FL-010; BACT; PA 81-13; PSD-FL-010, amended October 28, 1986; PSD-FL-010C, clerked July 29, 1999; 0310045-012-AC/PSD-FL-010E; and, 0310045-015-AC/PSD-FL-010G]

9. SC F.4. of 0310045-011-AV.

F.4. Visible Emissions. Visible emissions shall be used for compliance purposes and not exceed the opacity limits established in Revised Table 6 – Part B, SJRPP: Materials Handling and Storage Operations. [PSD-FL-010; BACT; PA 81-13; PSD-FL-010, amended October 28, 1986; PSD-FL-010C, clerked July 29, 1999; 0310045-012-AC/PSD-FL-010E; and, 0310045-015-AC/PSD-FL-010G]

10. SC F.5. of 0310045-011-AV.

F.5. Reserved.
[0310045-015-AC/PSD-FL-010G]

11. SC F.9. of 0310045-011-AV.

F.9. Visible Emissions. Visible emissions tests shall be performed for the affected emissions points in Revised Table 6 - Part B, SJRPP: Materials Handling and Storage Operations for compliance purposes, in accordance with the testing frequency established in the table, and while using EPA Method 9, 40 CFR 60, Appendix A, and Chapter 62-297, F.A.C. [PSD-FL-010; PA 81-13; Part V, Rule 2.501, JEPB; and, 0310045-015-AC/PSD-FL-010G]

12. SC F.10. of 0310045-011-AV.

F.10. Reserved.
[0310045-015-AC/PSD-FL-010G]

2. PSD-FL-010 & PSD-FL-010C: Condition 3.

(1) 1st Paragraph: no change.

(2) 2nd Paragraph: The additional new condition will establish that the visible emissions standard will be used for compliance purposes and the compliance test method to be used is EPA Method 9, in accordance with 40 CFR 60, Appendix A, and Chapter 62-297, F.A.C. Therefore, the following is changed:

FROM:

Opacity tests shall be performed for the emissions points in Part C of revised Table 6 for compliance purposes, initial only using a Method 9 test. If the opacity limits are not met for those sources that exhaust through a stack, permit compliance shall be determined on the basis of mass emission rate test. In addition to these initial tests, a Method 9 test shall be conducted annually for the limestone silos, nonsaleable ash silos, and saleable ash silos.

TO:

Visible emissions tests shall be performed for the emissions points in Revised Table 6 - Part B, SJRPP: Materials Handling and Storage Operations for compliance purposes, in accordance with the testing frequency established in the table, and while using EPA Method 9, 40 CFR 60, Appendix A, and Chapter 62-297, F.A.C. The air quality control system requirements established in the table for each emissions point shall be used to minimize particulate matter emissions. See the following tables, which are attached: 1) PSD-FL-010: Tables 2 and 6. Allowable Emission Limits [Revised: From PSD Permit (dated October 28, 1986)]; 2) PSD-FL-010C: Table 6 - Part B (clerked July 29, 1999); and, 3) Revised Table 6 - Part B, SJRPP: Materials Handling and Storage Operations.

Visible emissions tests shall be performed for the emissions points in Part C of Revised Table 6 for compliance purposes, initial only using EPA Method 9, 40 CFR 60, Appendix A. If the opacity limits are not met for those sources that exhaust through a stack, permit compliance shall be determined on the basis of mass emission rate test using EPA Methods 1 - 5, 40 CFR 60, Appendix A. See the following table, which is attached: PSD-FL-010C: Table 6 - Part C (clerked July 29, 1999).

3. 0310045-003-AC/PSD-FL-265: Condition 26. (SC H.21.: 0310045-011-AV).

The Department finds the request to revise the excess emissions terms and conditions related to startups, shutdowns, and upsets/malfunctions of the JEA's Northside Generating Station (NGS) CFB Units 1 and 2 acceptable. The issue relates to the inertia associated with the large mass of bed material (typically on the order of 300 tons) that results in a longer response time than a traditional solid fuel unit. Both Excess Emissions regulations at Rules 62-210.700(1) and (5), F.A.C., allows the Department to evaluate emissions units on a case-by-case basis and consider operational variations in types of industrial equipment operations and to adjust maximum and minimum factors to provide reasonable and practical regulatory controls consistent with the public interests. Therefore, the following changes are made:

FROM:

26. Authorized Emissions. Notwithstanding other emission limits and standards established by this permit, excess emissions resulting from startup, shutdown, or malfunction shall be permitted provided that best operational practices are adhered to and the duration of excess emissions shall be minimized but in no case exceed twelve (12) hours in any 24-hour period for a startup on CFB Boilers Nos. 1 and 2 (which shall not be started up at the same time) or two (2) hours in any 24-hour period for other reasons unless specifically authorized by DEP or the ERMD-EQD for longer duration. The permittee shall submit a written procedure summarizing the current best operational practices to be followed and the anticipated emissions for startup and shutdown conditions within one year after initial startup of CFB Boiler No. 2, and shall update this document every 5 years (at operating permit renewal). The twelve (12) hours duration of excess emissions may be reduced through a permit revision based on the operating experience on CFB Boilers Nos. 1 and 2.
[Rule 62-210.700, F.A.C.; and, 0310045-003-AC/PSD-FL-265]

TO:

26. Authorized Emissions. Notwithstanding other emission limits and standards established by this permit, excess emissions resulting from startup, shutdown, or malfunction shall be permitted provided (1) that best operational practices are adhered to and (2) the duration of excess emissions shall be minimized but not exceed sixty (60) hours in any calendar month per emissions unit (CFBs Units Nos. 1 and 2). The permittee shall keep operational records necessary to demonstrate compliance with this restriction. Emissions data collected during periods of startup, shutdown, and malfunction shall be included when determining compliance with annual emission limits. The CFB Units shall not be started up at the same time. The permittee shall update the written procedure summarizing the current best operational practices to be followed every 5 years (at operating permit renewal).

Pursuant to Rule 62-210.200, F.A.C., Definitions, the following are defined:

- a. Startup: The commencement of operation of any emissions unit which has shut down or ceased operation for a period of time sufficient to cause temperature, pressure, chemical or pollution control device imbalances, which result in excess emissions.
- b. Shutdown: The cessation of the operation of an emissions unit for any purpose.

c. Malfunction: Any unavoidable mechanical and/or electrical failure of air pollution control equipment or process equipment or of a process resulting in operation in an abnormal or unusual manner.

In case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department or appropriate Local Program in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department or appropriate Local Program.

[Rules 62-210.200 and 62-210.700(1), (5) & (6), F.A.C.; and, 0310045-015-AC/PSD-FL-265C]

4. 0310045-003-AC/PSD-FL-265. Conditions 31.(a) and 32.(a) (SCs of H.28.a. and H.29.a., respectively: 0310045-011-AV).

The Department finds the request acceptable to change the specific conditions related to compliance demonstration for SO₂ and NO_x for the JEA's NGS CFB Units Nos. 1 and 2, specifically remove the use of missing data substitution, which is acceptable for purposes for Acid Rain allowances, to avoid the conflict when determining the compliance average with the emission limit and the associated timeframe that was established.

FROM:

31. Sulfur Dioxide:

(a) Compliance with sulfur dioxide (SO₂) emissions limits in Conditions 14(a) and 14(c) shall be demonstrated with Continuous Emissions Monitoring Systems (CEMS's) installed, certified, operated and maintained in accordance with 40 CFR Part 75, based on 24-hour block and 30-day rolling averages, as applicable, and excluding periods of startup, shutdown, and malfunction. When monitoring data are not available, substitution for missing data shall be handled as required by the federal Acid Rain Program. Emissions recorded in parts per million shall be converted to lb/MMBtu using an appropriate F-factor for purposes of determining compliance with the emission limits in Conditions 14(a) and 14(c).

{Permitting Note: At least three (3) hours of data are required to establish a 24-hour average for CEMS data.}

[Applicant request; 0310045-003-AC/PSD-FL-265; and, 0310045-012-AC/PSD-FL-265B]

32. Oxides of Nitrogen:

(a) Compliance with the oxides of nitrogen (NO_x) emissions limit in Condition 15(a) shall be demonstrated with a CEMS's installed, certified, operated and maintained in accordance with 40 CFR Part 75, based on a 30-day rolling average and excluding periods of startup, shutdown and malfunction. When monitoring data are not available, substitution for missing data shall be handled as required by the federal Acid Rain Program to calculate the 30-day rolling average.

[Applicant request; and, 0310045-003-AC/PSD-FL-265]

TO:

31. Sulfur Dioxide:

(a) Compliance with sulfur dioxide (SO₂) emissions limits in Conditions 14(a) and 14(c) shall be demonstrated with Continuous Emissions Monitoring Systems (CEMSs) installed, certified, operated and maintained in accordance with 40 CFR Part 75, based on 24-hour block and 30-day rolling averages, as applicable, and excluding periods of startup, shutdown, and malfunction. Emissions recorded in parts per million shall be converted to lb/MMBtu using an appropriate F-factor for purposes of determining compliance with the emission limits in Conditions 14(a) and 14(c).

{Permitting Note: At least three (3) hours of data are required to establish a 24-hour average for CEMS data.}

[Applicant's request; 0310045-012-AC/PSD-FL-265B; and, 0310045-015-AC/PSD-FL-265C]

Mr. James M. Chansler
JEA: Northside Generating Station and St. Johns River Power Park
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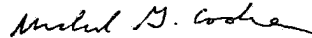
32. Oxides of Nitrogen:

(a) Compliance with the oxides of nitrogen (NOx) emissions limit in Condition 15(a) shall be demonstrated with a CEMS's installed, certified, operated and maintained in accordance with 40 CFR Part 75, based on a 30-day rolling average and excluding periods of startup, shutdown and malfunction. The 30-day rolling averages will be determined based on hourly values calculated in accordance with Appendix F of 40 CFR Part 75.
[Applicant's request; and, 0310045-015-AC/PSD-FL-265C]

This permit (letter) is issued pursuant to Chapter 403, Florida Statutes (F.S.). Any party to this order has the right to seek judicial review of it under Section 120.68, F.S., 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 thirty days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.

Sincerely,



Michael G. Cooke
Director
Division of Air Resource Management

MGC/sms/bm

cc: Mr. Bert Gianazza, P.E., JEA, Application Contact
Mr. Richard Robinson, ERMD-EQD
Mr. Hamilton Oven, DEP-SCO
Mr. Gregg Worley, U.S. EPA, Region 4