



Department of Environmental Protection

Jeb Bush
Governor

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

Colleen M. Castille
Secretary

Permittee:
JEA
21 West Church Street
Jacksonville, Florida 32202

FINAL Permit No.: 0310045-016-AV
Facility ID No.: 0310045
SIC No.: 49; 4911
Project: Title V Air Operation Permit Revision

The subject of this permit is for the revision of the Title V Air Operation Permit, which includes the following changes:

- (1) Incorporation of air construction permit, No. 0310001-002-AC, for the Separation Technologies LLC's Separation Technologies, Inc. (STI) fly ash beneficiation processing operation, which is located adjacent/contiguous to the JEA's SJRPP and receives the fly ash from the JEA's SJRPP operation;
- (2) Incorporation of air construction permit, No. 0310045-014-AC/PSD-FL-010E, which allowed the JEA's SJRPP Units 1 and 2 to fire up to 30% petroleum coke;
- (3) Incorporation of air construction permit, No. 0310001-015-AC/PSD-FL-010G, which amended Table 6 – Part B, SJRPP: Materials Handling and Storage Operations. Specifically,
 - (a) Allow a change to the Rail Car Unloading – Rotary Dumper operation (EU 023a) within the Rotary Railcar Dumper Building (RRDB) at the JEA's SJRPP [specifically, allowed the removal of a baghouse associated with the four transfer points within the RRDB and continued the current practice of using wet suppression to control fugitive emissions of particulate matter when handling, loading and unloading materials; in addition, the RRDB is domed and mostly enclosed; and, the emissions units/points will be combined and designated as the "Rotary Railcar Dumper Building – Unloading and Transfer Points" (EU -023a)];
 - (b) Remove the PM/PM₁₀ limitations contained in Table 6 – Part B [PSD-FL-010C/PA-81-13, clerked on 07/29/99, which replaced Revised Tables 2 and 6, PSD-FL-010/PA-81-13, amended 10/28/1986], and assign a visible emissions limit of "5% opacity" to all operations controlled by a baghouse/fabric filter system;
 - (c) Establish that the "visible emissions limit" will now be used for "compliance purposes"; and,
 - (d) Establish the visible emissions performance testing frequency for the emissions units/points contained in Table 6 – Part B [PSD-FL-010(C)/PA-81-13, clerked on 07/29/99, which replaced Revised Tables 2 and 6, PSD-FL-010/PA-81-13, amended 10/28/1986]];
- (4) Revise the excess emissions terms and conditions related to startups, shutdowns, and upsets/malfunctions of the JEA's NGS CFB Units 1 and 2 established in the AC permit No. 0310045-003-AC/PSD-FL-265 [see condition No. 26 [affects specific conditions (SCs) H.19. and H.21., 0310045-011-AV]];
- (5) Change the specific conditions related to compliance demonstration for SO₂ and NO_x for the JEA's NGS 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 SCs Nos. 31.(a) and 32(a), respectively (affects SCs H.28.a. and H.29.a., respectively, 0310045-011-AV)];
- (6) In Appendix I-1, List of Insignificant Emissions Units and/or Activities: remove the qualifier "**Not Federally Enforceable**" from the listing of "VII. SJRPP Emergency Diesel Fire Pump", which was placed in the appendix through the PROPOSED Determination and PROPOSED Title V Permit Renewal, No. 0310045-011-AV; add the "NGS By-Product Reclamation" operation; at JEA's NGS, add an "emergency" generator; in addition and for JEA's NGS, add two (2) black start diesel-fired 2,307 hp emergency generators (existing emissions units being removed and brought from the JEA's Kennedy Generating Station);
- (7) In Appendix U-1, List of Unregulated Emissions Units and/or Activities: add a 3,000 gallon diesel storage tank (an existing emissions unit being removed and brought from the JEA's Kennedy Generating Station); and,
- (8) Add the NGS's CFB Boilers [EUs -026 and -027 (EPA's ID: Nos. 2A and 1A, respectively)] to the Acid Rain Permit.
- (9) Specific Condition I.40. will become "Reserved" since the emissions unit -035 has been compliance tested (Unit 1 on 09/04/03 and Unit 2 on 09/16/03) and the Compliance Plan, Appendix CP-1, is no longer needed.

This facility is located at 4377 Heckshire Drive, Jacksonville, Duval County; UTM Coordinates: Zone 17, 446.90 km East and 3359.150 km North; Latitude: 30° 21' 52" North and Longitude: 81° 37' 25" West.

"More Protection, Less Process"

This Title V Air Operation Permit Revision is issued under the provisions of Chapter 403, Florida Statutes (F.S.); Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 62-213 and 62-214; the City of Jacksonville Ordinance Code (JOC), Title X, Chapter 376; and, the Jacksonville Environmental Protection Board (JEPB) Rule 2, Parts I thru VII and Parts IX thru XII. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

Referenced attachments made a part of this permit:

Appendix U-1, List of Unregulated Emissions Units and/or Activities
Appendix I-1, List of Insignificant Emissions Units and/or Activities
APPENDIX TV-5, TITLE V CONDITIONS (version dated 03/28/05)
APPENDIX SS-1, STACK SAMPLING FACILITIES (version dated 10/07/96)
TABLE 297.310-1, CALIBRATION SCHEDULE (dated 10/07/96)
FIGURE 1 - SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS
AND MONITORING SYSTEMS PERFORMANCE REPORT (40 CFR 60, July 1996)
Operation and Maintenance Plan
Alternate Sampling Procedure: ASP Number 97-B-01
Appendix 40 CFR 60 Subpart A - General Provisions
Attachment NGS: CT Heat Input Nominal Values: Heat Load MW vs. Temperature
Revised Table 6: Parts A, B and C
Attachment Q: Procedures for Startup and Shutdown
Appendix CAM: NGS CFB Boilers Nos. 1 & 2 and SJRPP Boilers Nos. 1 & 2

Renewal Effective Date: January 1, 2004
Revision Effective Date: June 20, 2006
Renewal Application Due Date: July 5, 2008
Expiration Date: December 31, 2008



Joseph Kahn, P.E., Acting Director
Division of Air Resource Management

JK/tlv/jfk/bm