Initial Title V Air Operation Permit
Permit No. 0310561-003-AV

APPLICANT

The applicant for this project is Jacksonville Electric Authority (JEA). The applicant's responsible official and mailing address are: James M. Chansler, P.E., JEA, Greenland Energy Center, 21 West Church Street, Jacksonville, Florida 32202.

FACILITY DESCRIPTION

The applicant operates the existing Greenland Energy Center, which is located in Duval County at 6850 Energy Center Drive, Jacksonville, Florida.

The facility is an existing site consisting of two simple cycle combustion turbines (176 Megawatts each) operating on natural gas with dry low NO_X burners and fired by ultra-low sulfur fuel oil as a backup fuel with water injection controls for NO_X. Continuous emission monitors are used for Nitrogen Oxides (NO_X) and carbon monoxide (CO). These new units are subject to New Source Performance Standards, Subpart KKKK, which incorporate periodic monitoring provisions in order to maintain compliance with emission standards throughout the year.

This facility also includes miscellaneous insignificant emissions units and/or activities.

PROJECT DESCRIPTION

The purpose of this permitting project is to issue an initial Title V air operation permit for the above referenced facility which reflects the standards and requirements established in air construction permit Nos. 0310561-001-AC/PSF-FL-401 and 0310561-004-AC/PSD-FL-410A.

PROCESSING SCHEDULE AND RELATED DOCUMENTS

Application for a Title V Air Operation Permit received 7/12/2011.

Draft/proposed permit issued 10/6/11.

Public Notice of Intent to Issue Air Permit published 10/9/11.

PRIMARY REGULATORY REQUIREMENTS

Title III: The facility is not identified as a major source of hazardous air pollutants (HAP).

Title IV: The facility operates units subject to the acid rain provisions of the Clean Air Act.

Title V: The facility is a Title V major source of air pollution in accordance with Chapter 62-213, Florida Administrative Code (F.A.C.).

PSD: The facility is a Prevention of Significant Deterioration (PSD)-major source of air pollution in accordance with Rule 62-212.400, F.A.C.

NSPS: The facility operates units subject to the New Source Performance Standards (NSPS) of 40 Code of Federal Regulations (CFR) 60, Subpart KKKK (combustion turbines) and 40 CFR 60, Subpart IIII (fire pump).

NESHAP: The facility operates units subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) of 40 CFR 63, Subpart ZZZZ.

CAIR: The facility operates units subject to the Clean Air Interstate Rule (CAIR) set forth in Rule 62-296.470, F.A.C.

CAM: Compliance Assurance Monitoring (CAM) does not apply to any of the units at the facility as the combustion turbines are subject to 40 CFR 60 Subpart KKKK, which includes continuous emission monitoring provisions. The combustion turbines employ dry low NO_X burners and water injection control systems for natural gas and fuel oil respectively.

CONCLUSION

This project issues the initial Title V air operation permit No. 0310561-003-AV. This Title V air operation permit is issued under the provisions of Chapter 403, Florida Statues (F.S.), and Chapters 62-4, 62-210, 62-213 and 214, F.A.C.