Orlando Utilities Commission, Indian River Plant
Title V Air Operation Permit Renewal
Permit No. 0090008-005-AV

APPLICANT

The applicant for this project is the Orlando Utilities Commission. The applicant's responsible official and mailing address are: Mr. Jan C. Aspuru, Vice President of Power Resources, Orlando Utilities Commission, Indian River Plant, Reliable Plaza, 100 West Anderson Street, Orlando, Florida 32801.

FACILITY DESCRIPTION

The applicant operates the Indian River Plant, which is located in Brevard County at US 1 and Kings Highway.

The existing facility consists primarily of four combustion turbines. Emissions units 004 and 007 (combustion turbines A and B) consist of simple cycle General Electric Frame 6 combustion turbines, each with a 35 megawatt (MW) rating. Although the turbines primarily fire natural gas, distillate oil may be fired during periods of curtailed or uneconomical natural gas supply. Nitrogen oxides emissions are reduced by using water injection. Both turbines began commercial operation on August 1, 1990.

Emissions units 005 and 006 (combustion turbines C and D) consist of simple cycle Westinghouse Model Number 501-D5 combustion turbines, each with a 129 MW rating. The turbines primarily fire natural gas. Distillate oil may be fired during periods of curtailed or uneconomical natural gas supply. Nitrogen oxides emissions are controlled by water injection. Both turbines began commercial operation on November 1, 1991.

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

A compliance assurance monitoring (CAM) plan is included in the facility's Title V permit for the water injection control of nitrogen oxides emissions.

PROJECT DESCRIPTION

The purpose of this permitting project is to renew the existing Title V permit for the above referenced facility.

PROCESSING SCHEDULE AND RELATED DOCUMENTS

Application for a Title V Air Operation Permit Renewal received on May 21, 2009.
Additional Information Request letter dated July 15, 2009.
Additional Information Response received on October 12, 2009.

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.

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

CAM: Compliance Assurance Monitoring (CAM) applies to emissions units 004, 005, 006 and 007 (the four combustion turbines) at the facility. Nitrogen oxides emissions are reduced by using water injection.

PROJECT REVIEW

Minor changes were made as part of this renewal (i.e., reformatting, replacement of TV-6 with new Appendix TV, streamlining of emissions unit (EU) sections by moving common conditions to the new appendices).

CONCLUSION

This project renews Title V air operation permit No. 0090008-003-AV, which was effective on January 1, 2005. This Title V air operation permit renewal is issued under the provisions of Chapter 403, Florida Statues (F.S.), and Chapters 62-4, 62-210, 62-213 and 62-214, F.A.C.