City of Tallahassee
Sam O. Purdom Generating Station

Final Permit No. 1290001-011-AV, Title V Air Operation Permit Renewal

APPLICANT

The applicant for this project is the City of Tallahassee. The applicant's responsible official and mailing address are: Mr. Triveni Singh, Production Manager, Sam O. Purdom Generating Station, City of Tallahassee, 2602 Jackson Bluff Road, Tallahassee, Florida 32304.

FACILITY DESCRIPTION

The Sam O. Purdom Generating Station is located in Wakulla County at 667 Port Leon Drive, St. Marks, Florida.

This existing facility consists of: one fossil fuel-fired steam generator, two simple cycle combustion turbines, one auxiliary boiler, and a combined cycle combustion turbine. The total combined electrical generating capacity from the facility is a nominal 318.6 megawatts (MW), of which a nominal 134 MW are provided by the steam generators and a nominal 184.6 MW are provided by the combustion turbines. The fuels used at this facility are natural gas, fuel oil and on-specification used oil. The auxiliary boiler is only used as a source of steam for plant operations when either Unit Nos. 7 or 8 is not operating. Also included in this permit are miscellaneous insignificant emissions units and/or activities.

PROJECT DESCRIPTION

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

PROCESSING SCHEDULE AND RELATED DOCUMENTS

Application for a Title V Air Operation Permit Renewal received on May 21, 2012 via Electronic Permit Submittal and Processing System (EPSAP).
Request for Additional Information dated June 18, 2012 and sent via e-mail on June 19, 2012.
Additional Information Response dated August 23, 2012, received on August 28, 2012.

Draft/Proposed Title V Air Operation Permit Renewal posted onto web site on November 9, 2012.
Public Notice published on November 10, 2012.
Notification to U.S. EPA Region 4 of Publication of Public Notice on November 15, 2012.

PRIMARY REGULATORY REQUIREMENTS

Title I: This facility is a major source of hazardous air pollutants (HAP), based on the Title V air operation permit renewal application.

NESHAP: This facility operates units subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) of 40 Code of Federal Regulations (CFR) 63.

Title IV: This facility does operate units subject to the acid rain provisions of the Clean Air Act.

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

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

NSPS: This facility operates units subject to the New Source Performance Standards (NSPS) of 40 Code of Federal Regulations (CFR) 60.

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

Siting: This facility does operate units subject to the power plant siting provisions of Chapter 62-17, F.A.C.

CAM: The emissions units at this facility are not subject to CAM for one or more of the following reasons: they do not trigger the potential pre-air pollution control device major source emission thresholds; they demonstrate continuous compliance with a continuous emission monitoring system (CEMS); they are not equipped with air pollution control device(s); they are equipped with device(s) which are considered to be inherent to the process/operation; or, they satisfy CAM by meeting the post-1990 40 CFR 60 Subparts Cb/Eb federal monitoring requirements for the same or similar air pollutants.

GHG: This facility is identified as a major source of green house gas (GHG) pollutants.

PROJECT REVIEW

Changes were made in the format of this renewed Title V air operation permit.

Permit

- Engines. Engines in the previous permit, Permit No. 1290001-009-AV, were listed in Appendix U, Unregulated Emissions Units and/or Activities. Some of these engines are now 'regulated' emissions units under the recently promulgated federal regulations; specifically, 40 CFR 63 Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE). These engines are included in this permit as 'regulated' emissions units within the body of the permit in Subsection E. The black start engine and the fire pump engine are assigned their own individual Emissions Unit Identification Numbers (E.U. ID Nos.) 018 & 017, respectively.

  The "E.U. ID No. 012, General Purpose Engines" and "E.U. ID No. 013, Emergency Generators" listed in Appendix U are inactivated since the individual engines are now 'regulated' emissions units.

- Appendix I, List of Insignificant Emissions Units and/or Activities. Included the applicant's requested miscellaneous changes to the list of insignificant emissions units and/or activities.

  "E.U. ID No. 010, Fugitive VOC Sources - Painting Operations" previously in Appendix U, Unregulated Emissions Units and/or Activities are reclassified as being insignificant and listed in Appendix I, List of Insignificant Emissions Units and/or Activities. "E.U. ID No. 015, Cooling Tower" previously in Appendix U is also reclassified as being insignificant and listed in Appendix I.

CONCLUSION

This project renews Title V air operation permit No. 1290001-009-AV, which was effective January 1, 2008.

Sam O. Purdom Generating Station

http://www.talgov.com/you/you-learn-utilities-electric-purdom.aspx