Title V Air Operation Permit Renewal
Permit No. 0490043-009-AV

APPLICANT

The applicant for this project is Vandolah Power Company L.L.C. The applicant's responsible official and mailing address are: Douglas Jensen, Plant Manager, Vandolah Power Company L.L.C., Vandolah Power Project, 2394 Vandolah Road, Wauchula, Florida 33873.

FACILITY DESCRIPTION

The applicant operates the existing Vandolah Power Project, which is located in Hardee County at 2394 Vandolah Road, Wauchula, Florida.

Vandolah Power Project is operated as a peaking facility. The facility consists of four (4), dual-fuel, nominal 170 megawatt (MW) General Electric model PG7241FA combustion turbine-electric generators with evaporative inlet coolers and two (2) 2.8 million gallon fuel oil storage tanks. Each combustion turbine can fire both natural gas and distillate fuel oil. The combustion turbine units can operate in simple cycle mode and intermittent duty mode. NO_X emissions are controlled by dry low NO_X (DLN-2.6) combustors when firing natural gas and water injection when firing distillate oil (No. 2 oil or superior). A continuous emissions monitoring system (CEMS) for NO_X is installed on each unit.. Although water injection is used for NO_X control, a Compliance Assurance Monitoring (CAM) plan is not required because compliance is demonstrated by CEMS data. The turbines commenced operation in April 2002.

The facility has one (1) 265 horsepower (hp) Clarke Model JDFP-06WA diesel-fired fire protection system, with a John Deere Co. 6081A base model engine, for the operations/maintenance building. Other than maintenance and readiness testing, the engine is operated only in emergency situations.

The Vandolah facility has four (4) 375 kW diesel-fired Generac Power Systems, Inc. Model 5169990100 emergency generator sets at the facility. Other than maintenance and readiness testing, the generators are operated only in emergency situations.

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

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 April 16, 2012.
Draft/Proposed Title V Air Operation Permit Renewal posted onto web site on June 1, 2012.
Public Notice published on June 7, 2012.
Notification to U.S. EPA Region 4 of Publication of Public Notice on June 7, 2012.

PRIMARY REGULATORY REQUIREMENTS

Standard Industrial Classification (SIC) Code: 4911 – Electrical Generation

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.

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

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

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

PROJECT REVIEW

The purpose of this permit is to renew the Title V air operation permit for the above referenced facility. The renewal reflects the new permit format and includes the addition of the five existing Reciprocating Internal Combustion Engines subject to 40 CFR 63, Subpart ZZZZ.

CONCLUSION

This project renews Title V air operation permit No. 0490043-005-AV, which was effective on January 1, 2008. 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 214, F.A.C.