Title V Air Operation Permit Renewal
Permit No. 0010131-004-AV

APPLICANT

The applicant for this project is Gainesville Renewable Energy Center, LLC. The applicant's responsible official and mailing address are: Mr. James S. Gordon, Chief Executive Officer, Gainesville Renewable Energy Center, LLC, 20 Park Plaza, Suite 320, Boston, Massachusetts 02116.

FACILITY DESCRIPTION

The applicant operates the recently constructed Gainesville Renewable Energy Center (GREC), which is located in Alachua County within the city of Gainesville and approximately 7 miles southeast of the city of Alachua in Florida. Specifically, the plant is located on 131 acres within the boundary of the Gainesville Regional Utilities Deerhaven Generating Station in Alachua County, Florida.

GREC is a woody biomass-fueled electric power plant. GREC combusts woody biomass in a bubbling fluidized bed (BFB) boiler and associated steam turbine-electrical generator (STEG) to generate approximately 100 nominal net megawatts of electrical power. The GREC power plant is comprised of six major process areas. These process areas are: biomass fuel delivery, unloading and processing; biomass fuel handling and storage; power island (steam generating unit), including a BFB boiler, STEG and cooling tower; ash (bottom and fly) handling, storage and shipment; emergency support equipment; and alkaline sorbent storage.

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

PROJECT DESCRIPTION

The purpose of this permitting project is to issue the initial Title V permit for the above referenced facility along with a concurrent air construction permit modification. Details about the concurrent air construction permit modification can be found in the project's Technical Evaluation and Preliminary Determination document included in this permit package. The draft initial Title V air operation permit includes the specific permit conditions that regulate the emissions units at the GREC facility. All permit document for this permitting action can be found at the link below:

http://www.dep.state.fl.us/Air/emission/bioenergy/gainesville.htm

PRIMARY REGULATORY REQUIREMENTS

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

North American Industry Classification System (NAICS): 221119 - Other Electric Power Generation.

HAP: The facility is 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.

Siting: The GREC facility was certified pursuant to the power plant siting provisions of Chapter 62-17, F.A.C.

CAM: Compliance Assurance Monitoring (CAM) applies to emissions unit 002 (BFB boiler) for the controlled emissions of hydrogen chlorides (HCl) and hydrogen fluorides (HF). Emission of these pollutants are controlled by an in-duct sorbent injection system using lime or an equivalent.

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

PROJECT REVIEW

This project involves the initial issuance of the Title V air operation permit for the GREC facility.

CONCLUSION

This project is the initial Title V air operation permit No. 0010131-004-AV, which will effective on upon issue of the final permit. This initial 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 62-214, F.A.C.