Title V Air Operation Permit Renewal
Permit No. 1050216-014-AV

APPLICANT

The applicant for this project is Wheelabrator Ridge Energy, Inc. The applicant's responsible official and mailing address are: Mr. Rodney Williams, Plant Manager, Wheelabrator Ridge Energy, Inc., Ridge Generating Station, 3131 K-ville Avenue, Auburndale, FL 33823.

FACILITY DESCRIPTION

The applicant operates the Ridge Generating Unit, which is located at 3131 K-ville Avenue in Auburndale, Polk County, Florida.

The Ridge Generating Station facility is an electric power generation facility with a capacity of 50 megawatts of generator output. This facility consists of one boiler firing wood, yard waste, landfill gas, and tires; a lime silo; an ash handling system; a fuel building; and associated insignificant emission sources/activities. Particulate matter (PM) emissions from the boiler are controlled by a fabric filter baghouse. Sulfur dioxide (SO_2), acid gas, and organic compounds (including volatile organic compounds (VOC)) emissions from the boiler are controlled by a spray dryer absorber. Nitrogen oxides (NO_X) emissions from the boiler are controlled by a selective non-catalytic reduction (SNCR) system. The boiler is subject to federal new source performance standards (NSPS) 40 CFR 60 Subpart Db (Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units). The boiler utilizes continuous emissions monitoring systems (CEMS) for compliance purposes for NO_X, SO_2, carbon monoxide (CO), and opacity.

Also included in this permit are miscellaneous unregulated/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

Title V Air Operation Permit Renewal (1050216-008-AV) issued March 15, 2006

Title V Air Operation Permit Revision (1050216-010-AV) issued August 2, 2008

Title V Air Operation Permit Revision (1050216-012-AV) issued September 8, 2009

Title V Air Operation Permit Revision (1050216-013-AV) issued February 28, 2010

Application for a Title V Air Operation Permit Renewal received July 29, 2010

Additional Information Requests dated September 21, 2010 and December 3, 2010

Additional Information Response received November 5, 2010 and February 25, 2011

Notice of Intent to Issue Air Permit issued **[Month day, year]** *(to be completed in Final Permit)*

Public Notice Published **[Month day, year]** *(to be completed in Final Permit)*

PRIMARY REGULATORY REQUIREMENTS

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

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 does operate units subject to the New Source Performance Standards (NSPS) of 40 Code of Federal Regulations (CFR) 60.

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

CAIR: The facility is not subject to the Clean Air Interstate Rule (CAIR) set forth in Rule 62-296.470, F.A.C.

CAM: Emissions unit (EU) No. 001 (Boiler) is subject to Compliance assurance monitoring (CAM) for the regulated emissions of particulate matter, which are controlled by a baghouse.

PROJECT REVIEW

As part of this operation permit renewal the permit is being converted to the new Title V document formats for the permit and the associated documents. This includes replacement of TV-6 with new Appendix TV (Title V General Conditions), adding a new Appendix RR (Facility-wide Reporting Requirements) and Appendix TR (Facility-wide Testing Requirements). An Appendix BD (BACT Determination (issued 02/14/97)) was also added.

Also as part of this renewal, the following federal National Emissions Standards for Hazardous Air Pollutants (NESHAP) are being incorporated into the facility operation permit: NESHAP 40 CFR 63 Subpart ZZZZ (NESHAP for Stationary Reciprocating Internal Combustion Engines), as revised on March 3, 2010, June 30, 2010, and August 30, 2010; and NESHAP 40 CFR 63 Subpart JJJJJJ (NESHAP for Industrial, Commercial, and Institutional Boilers Area Sources), as promulgated on March 21, 2011. As part of this, a new emissions unit section was added for new EU Nos. 005, 006, and 007 (Section III, Subsection C.) for the existing stationary reciprocating internal combustion engines (RICE) at this facility.

CONCLUSION

This project renews Title V air operation permit No. 1050226-013-AV, a Title V permit revision which was issued on February 28, 2010. 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 and 62-213, F.A.C.