Title V Air Operation Permit Renewal
Permit No. 0730099-009-AV

APPLICANT

The applicant for this project is Leon County Board of County Commissioners. The applicant's responsible official and mailing address are: Norman Thomas, Director, Leon County Board of County Commissioners, Leon County Solid Waste Management Facility, 7550 Apalachee Parkway, Tallahassee, Florida 32311.

FACILITY DESCRIPTION

The applicant operates the existing Leon County Solid Waste Management Facility, which is located in Leon County at 7550 Apalachee Parkway, Tallahassee, Florida.

This facility consists of a 312-acre landfill consisting of both Class I and Class III waste disposal areas with a voluntarily installed gas collection system; a landfill gas utility flare; and an emergency diesel powered generator. Activities at the facility generate landfill gases resulting from the decomposition of the solid waste, and particulate matter resulting from vehicular traffic and soil moving/handling.

The Department issued Solid Waste Operating Permit 0009560-003-SO on October 27, 2003, which approved a 30-foot vertical expansion of the Class I disposal area making the landfill subject to the requirements of 40 CFR 60 Subpart WWW. The maximum design capacity is now 4,684,206 Mg of Class I waste (expansion accounts for 380,732 Mg). An updated estimate of anticipated future Non-Methane Organic Compounds (NMOC) emissions does not exceed 50 Mg/yr, therefore, the facility is not required to install and operate a landfill gas collection and control system. However, a gas collection and control system was voluntarily installed. Asbestos containing material is also disposed in the landfill and these activities are subject to the requirements of 40 CFR 61 Subpart M (Set A)

A Utility "candlestick" flare (EU 003) is used as a safety measure to prevent the dangerous buildup of gases and is not required to satisfy control requirements of NSPS Subpart WWW. Using EPA-approved LandGEM modeling with various emissions and bases, the 50 megagram per year NMOC emission rate threshold, which would require the installation of a gas collection and control system, in 40 CFR 60 Subpart WWW is not exceeded during operation, closure or post-closure (long-term care) at this landfill.

The emergency diesel powered generator is a Model WDG6/4 2004 Olympian Diesel Emergency Generator, Serial No. OLY00000PNAT00929, used to provide power to the facility during outages. This engine was manufactured in 2003. The engine is subject to the requirements of 40 CFR 63, Subpart ZZZZ and is classified as an existing, emergency CI engine, by the subpart.

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 and to reclassify the existing emergency generator as a regulated emissions unit.

PROCESSING SCHEDULE AND RELATED DOCUMENTS

Application for a Title V Air Operation Permit Renewal received November 9, 2012

PRIMARY REGULATORY REQUIREMENTS

Standard Industrial Classification (SIC) Code: 4953 – Refuse Systems.

HAP: 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.).

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.

CAM: Compliance Assurance Monitoring (CAM) does not apply to any of the units at the facility. CAM applies to a pollutant-specific emissions unit at a major source that is required to obtain a part 70 or 71 permit. This facility was required to obtain a part 70 permit solely by the requirement contained in 40 CFR 60 Subpart WWW and not by being a major source of emissions.

GHG: The facility is not identified as a major source of green house gas (GHG) pollutants.

PROJECT REVIEW

This project renews the permit document and reclassifies the existing emergency generator as a regulated emissions unit subject to 40 CFR 63 Subpart ZZZZ.

CONCLUSION

This project renews Title V air operation permit No. 0730099-007-AV, which was effective on June 27, 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, and 62-213, F.A.C.