Title V Air Operation Permit Renewal
Permit No. 1050298-007-AV

APPLICANT

The applicant for this project is Polk County Board of County Commissioners. The applicant's responsible official and mailing address are: Mr. Brooks Stayer, Waste Resource Management Director, Polk County Board of County Commissioners, Polk County North Central Landfill, 10 Environmental Loop South, Winter Haven Florida 33880-1069.

FACILITY DESCRIPTION

The applicant operates the Polk County North Central Landfill, which is located at 7425 Highway 540, Winter Haven, Florida.

This facility is engaged in municipal solid waste landfill operations. The North Central Landfill began accepting waste in 1977 in the now closed four unlined Class I areas (EU No. 006) located on the southern portion of the site (unlined Class I Landfill cell Nos. 1-4). Waste was collected in these areas from 1977 through 1985. Solar ignited flares were constructed on unlined Class I cells 2, 3, and 4 in 2008. Waste filling (Class I waste) in the Class I/III landfill began in 1986. In addition to the above closed unlined Class I cells, the landfill includes an active unlined Class III area, a closed unlined Class I/III area, a closed unlined Class III area and three (3) active lined Class I areas (EU No. 001) (single liner Phase I, double liner Phase II, and double liner Phase III) all located in the northern portion of the landfill approximately mid way between the north and south limits of the property. This facility also includes a portable 1000 horsepower maximum diesel engine powered yard waste grinder (EU No. 004) operated by a different owner. The design capacity of the landfill is greater than 2.5 million megagrams (MG) and a Tier 2 non-methane organic compounds (NMOC) emission rate was calculated to exceed 50 MG per year. The landfill is subject to the requirements of 40 CFR 60 Subpart WWW - Standards of Performance for Municipal Solid Waste Landfills and 40 CFR 63 Subpart AAAA - National Emission Standards for Hazardous Air Pollutants for Municipal Solid Waste Landfills.

Three emission units (EU Nos. 008-010) were added to this permit for reciprocating internal combustion engines that are subject to 40 CFR 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

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

Renewed Title V Air Operation Permit issued October 7, 2007
Title V Air Operation Permit Revision issued February 7, 2010
Application for a Title V Air Operation Permit Renewal received February 21, 2012
Notice of Intent to Issue Air Permit issued May 8, 2012
Public Notice Published May 20, 2012

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 not 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 emissions units subject to the New Source Performance Standards (NSPS) of 40 Code of Federal Regulations (CFR) 60.

NESHAP: The facility does operate emissions 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: Compliance Assurance Monitoring (CAM) does not apply to any of the emissions units at the facility.

PROJECT REVIEW

Following are changes made as a part of this renewal:

The permit was written using the new Tallahassee Title V format.

Brought the 40 CFR 60, Subpart WWW and the 40 CFR 63, Subpart AAAA requirements into the permit as specific conditions.

EU 005 (Diesel Powered Yard Waste Grinder) was deleted since only one yard waste grinder operates at the facility at a time.

Took out the small emergency generator in Specific Condition No. A.2. and replaced it with backup power supply.

Added the words “beyond the NSPS allowable downtime period”, also in Specific Condition No. A.2., to clarify how Polk Co deals with outages.

Added an allowance to report outages of the spark igniter system on EU 006 (Closed Unlined Landfill Cell Nos. 2, 3, & 4 with Passive Flares) within 1 hour of discovery. This was not previously in a plan or addendum.

Added three new emission units (EU Nos. 008-010) for RICE engines subject to 40 CFR 63, Subpart ZZZZ.

Updated Appendix I

Added appendices related to alternatives requested by Polk County as allowed by 40 CFR 60, Subpart WWW and 40 CFR 63, Subpart AAAA.

CONCLUSION

This project renews Title V air operation permit No. 1050298-005-AV, which was issued on February 7, 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.