Title V Air Operation Permit Renewal
Permit No. 0250615-014-AV

APPLICANT

The applicant for this project is Waste Management, Inc. of Florida. The applicant's responsible official and mailing address are: Joe Gagne, District Manager, Waste Management, Inc. of Florida, Medley Landfill, 9350 Northwest 89th Avenue, Medley, Florida 33178.

FACILITY DESCRIPTION

The applicant operates the existing Medley Landfill, which is located in Miami-Dade County at 9350 Northwest 89th Avenue, Medley, Florida.

This existing facility is an open Class I Landfill with a design capacity greater than 2.5 million megagrams by mass or 2.5 million cubic meters by volume. Based on USEPA's uncontrolled emission rate estimates, the non-methane organic compounds (NMOC) emissions were calculated to be greater than 50 megagrams per year (Mg/year). Yearly waste acceptance is approximately 700,000 tons. The landfill does not contain a bioreactor and is an active asbestos waste disposal site. Landfill gas emissions are collected and controlled through an extraction well field system with flares. The two existing flares consist of a 3,000 standard cubic feet per minute (scfm) open utility flare which is used primarily as backup, and a 6,000 scfm enclosed flare which is used as the primary flare. Neither the enclosed flare nor the open flare is equipped with a bypass in which landfill gas can bypass the control device in a un-combusted manner.

This facility includes two diesel fuel fired emergency generators as well as 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

Initial Title V Air Operation Permit issued January 25, 1999
Renewal Title V Air Operation Permit issued August 23, 2004
Renewal Title V Air Operation Permit issued June 19, 2009
Application for a Title V Air Operation Permit Renewal received November 4, 2013

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.).

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.

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

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

PROJECT REVIEW

The renewal permit includes the following changes.

1. General Permit Format

The renewal permit is based on the Department's updated formats for a Title V air operation permit.

2. Section I. Facility Information

a. Subsection A. Facility Description.
   (1) Removed the utility flare that was installed in 2002 and removed in 2007.
   (2) Added the actual volumetric flow rate to the existing two flares.
   (3) Included the emergency generators and applicable regulations to the facility description.

b. Subsection B. Summary of Emissions Units.
   Classified the emergency generators as regulated emissions units.

c. Subsection C. Relevant Documents.
   Removed this subsection since the section is not in the updated formats for the Title V air operation permits and the information is contained in this statement of basis.

d. Subsection C. Applicable Regulations.
   Included this subsection identifying applicable state and federal regulations.

3. Section II. Facility-Wide Conditions.

a. Conditions were combined or updated to meet the new Title V format changes.

b. (NESHAP) Standard for Active Waste Disposal Sites was moved to Section III, Subsection A. Emission Unit 002.

4. Section III. Emissions Units and Specific Conditions.

The emission units in this subsection were separated into two subsections addressing the landfill separate from the flares.

a. Subsection A. Emission Unit 002.
   (1) Included the landfill description and applicable regulations.
   (2) Removed the applicability conditions since they are identified in the landfill description and in the Title V air operation permit.
   (3) Updated the design capacity of the landfill to show that the non-methane organic compounds (NMOC) produced by the landfill are greater than 50 Mg/year.
   (4) Included permitted hours of operation.
   (5) Included Asbestos Disposal requirements.
   (6) Revised Condition A.6. (Requirements if NMOC equal to or greater than 50 Mg/year) updating the condition since the landfill currently meets or exceeds the NMOC emissions of 50 Mg/year threshold and the required control equipment has been installed.
   (7) Removed the following obsolete Conditions since the landfill currently meets or exceeds the NMOC emissions of 50 Mg/year and the required control equipment has been installed and notification and reporting requirements have been met: A.14. (NMOC Emission Rate Calculations); A.15. (NMOC Concentration Determination); A.16 (Determination of Methane Generation Rate Constant); A.17. (Alternative Methods to Determine NMOC Concentration); A.44. (NMOC Emission Rate Reporting Requirements); A.45. (Collection and Control System Design Plan Submittal Requirements); A.49. (Additional Collection and Control Equipment Reporting Requirements); and A.60. (Pollution Control Project).
   (8) Removed the following obsolete Conditions since the landfill capacity meets or exceeds the 2.5 million megagrams and 2.5 million cubic meters and the design capacity reporting requirements have been met: A.42. (Initial Design Capacity Reporting); and A.43. (Design Capacity Reporting).
   (9) Revised Condition A.58. (Notification and Recordkeeping) to reflect the current notification and recordkeeping requirements.

b. Subsection B. Emission Units 001 and 005.
   (1) Added the subsection identifying the flares and their applicable regulations.
   (2) Included a description of the flares and applicable regulations.
   (3) Included the permitted capacity of the flares and authorized fuels.
c. Subsection C. Emission Unit 012. Added this subsection identifying the 635 horsepower (hp) emergency diesel generator and its applicable regulations.
d. Subsection D. Emission Unit 013. Added this subsection identifying the 550 hp emergency diesel generator and its applicable regulations.

CONCLUSION

This project renews Title V Air Operation Permit No. 0250615-011-AV, which was effective on June 19, 2009. 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.