Title V Air Operation Permit Renewal
Permit No. 0630045-008-AV

APPLICANT

The applicant for this project is Waste Management of Leon County, Inc. The applicant's responsible official and mailing address are: David Myhan, Area Vice President, Waste Management, Inc., of Florida, Springhill Regional Landfill, 382 Galleria Parkway, Suite 107, Madison, Mississippi 39110.

FACILITY DESCRIPTION

The applicant operates the existing Springhill Regional Landfill, which is a 664-acre Class I Municipal Solid Waste (MSW) Landfill located in Jackson County at 4945 Highway 273, Campbellton, Florida. This facility operates a landfill gas collection system for two independent landfill sections with approximately 39 acres in the north section (North Landfill), and 228 acres in the south section (South Landfill); and, a landfill gas recovery/electric generating plant. Air emissions from other landfill operations include fugitive emissions from vehicular traffic and fugitive emissions of landfill gas.

The North Landfill first accepted waste in 1983 and ceased accepting waste in July 1999. A closure notification was submitted on June 10, 2002, and the current solid waste closure permit 127123-0021-SF expires October 3, 2017. The South Landfill first began accepting waste on July 26, 1999, and is expected to operate until 2039 based on estimated future waste acceptance rates. The South Landfill's current solid waste permit 0000475-013-SO expires September 13, 2009. The North and South Landfills together exceed 2.5 million megagrams in design capacity (total is 27 million megagrams) and the generation of NMOC exceeds 50 megagrams per year, therefore, the facility installed and operates a gas collection and control system in compliance with 40 CFR 60 Subpart WWW and 40 CFR 63 Subpart AAAA.

This facility also includes 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 and to recognize that the closed North Landfill is no longer subject to requirements pursuant to 40 CFR 60, Subpart WWW through the removal of the related requirement from the permit.

PROCESSING SCHEDULE AND RELATED DOCUMENTS

Application for a Title V Air Operation Permit Renewal received November 6, 2013.
Additional Information Request dated December 12, 2013
Additional Information Response received March 11, 2014
Draft permit issued June 9, 2014.

PRIMARY REGULATORY REQUIREMENTS

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

North American Industry Classification System (NAICS): 562212 - Solid Waste Landfill.

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.

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

PROJECT REVIEW

The following changes were made to the permit documents as part of this renewal:

1. Replacement of the facility-wide conditions with latest versions.
2. Recognized the closure of the North Landfill by removing the requirements of 40 CFR 60, Subpart WWW that are no longer applicable from the permit conditions for emissions unit 001.
3. Moved solidification process to Appendix I – List of Insignificant Emissions Units and/or Activities. Based on information provided by the applicant, the particulate matter emissions from this infrequent activity are expected to be less than 5 tons per year due to the very low number of actual annual operating hours, the use of inherent dust collectors to minimize fugitive emissions and the fact that the mixing operation is a wet process. The storage silo is equipped with an inherent fabric filter to minimize fugitive emissions during the filling of the silo and the mixing operation is also equipped with a fabric filter dust collector in case there is any fugitive dust emitted from the mixing of the solidification agent with the liquid waste. Also, added a requirement to inspect and maintain the dust collectors to the reasonable precautions to prevent unconfined particulate matter in condition FW5. to ensure that the design standard for the fabric filters of less than 5% visible emissions is routinely met when the process is in operation.
4. A new Subsection D was added to list applicable requirements for the flare.
5. The applicable requirements for each of the units were clarified to cross-reference conditions contained within the permit, rather than to just the federal rule citations.
6. The federal requirements for the reciprocating internal combustion engines (RICE) were listed in the body of the permit with the previous applicable requirements for the landfill gas-fired engine/generator sets under Subsection C.
7. Appendix TV-6 was removed and replaced by the current standard appendices: Appendix RR, Facility-wide Reporting Requirements; Appendix TR, Facility-wide Testing Requirements; and, Appendix TV, Title V General Conditions.
8. Appendix GTSD, Gas Treatment System Determination, was added.
9. Appendix I, List of Insignificant Emissions Units and/or Activities, was updated.
10. Appendix NSPS Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines to provide applicable requirements if and when an engine in EU 005 gets replaced with a “new” engine.
11. Appendix U, List of Unregulated Emissions Units, was updated.
12. Appendix H, Permit History, was created and added to the Appendix Section as a referenced attachment for informational purposes.

CONCLUSION

This project renews Title V air operation permit No. 0630045-007-AV, which was effective on July 9, 2009. This Title V air operation permit renewal is issued under the provisions of Chapter 403, Florida Statues (F.S.), and Chapters 62-4, 62-213 and 62-213, F.A.C.