Martin County Utilities and Solid Waste Department
Martin County Palm City II Sanitary Landfill
Title V Air Operation Permit Renewal
Permit No. 0850120-006-AV

APPLICANT

The applicant for this project is Martin County Utilities and Solid Waste Department. The applicant's responsible official and mailing address are: Mr. Patrick Yancey, Solid Waste Administrator, Martin County Board County Commissioners, Martin County Palm City II Sanitary Landfill, P.O. Box 9000, Stuart, Florida 34995-9000.

FACILITY DESCRIPTION

The applicant operates the existing Martin County Palm City II Sanitary Landfill, which is located in Martin County at 9101SW Busch Street, Palm City, Florida.

The Martin County Palm City II Sanitary Landfill was designed as a Class I municipal solid waste (MSW) disposal facility (landfill) having a capacity equal to or greater than 2.5 million megagrams by mass or 2.5 million cubic meters by volume. The landfill commenced construction in 1985 and has not been modified or reconstructed. The facility started receiving waste the same year, and ceased receiving waste in February 2005; the landfill achieved final closure in July 2006. Landfill gas emissions are controlled by a non-assisted open flare. The collection and control system began operation on June 15, 1999. The original 600 scfm flare that started operation in June 1999 was removed and was replaced with a 2,000 scfm non-assisted open flare on February 3, 2004. The 2007 annual operating report revealed that peak landfill gas production occurred during the year of 2005. This landfill was an active asbestos waste disposal site. The landfill is subject to: 40 CFR 60, Subpart Cc - Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills; 40 CFR 61, Subpart M – National Emissions Standard for Asbestos; and, 40 CFR 63 Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills.

The Martin County Palm City Landfill operates an active municipal transfer station on the same property. This activity commenced commercial operation on November 14, 2004. A construction and demolition debris transfer area, and a yard waste grinding operation are also located on the same property.

Also included in this permit are miscellaneous unregulated/insignificant emissions units and/or activities.

Based on the initial Title V permit application received June 19, 1996, and the Title V Air Operation Permit Renewal application received February 2, 2009, this facility is not a major source of hazardous air pollutants (HAPs).

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.

PROCESSING SCHEDULE AND RELATED DOCUMENTS

Application for a Title V Air Operation Permit Renewal received **January 13, 2014**

PRIMARY REGULATORY REQUIREMENTS

Title V: The facility is a Title V major source of air pollution in accordance with Title V of the Clean Air Act (42 U.S.C. 7401, et seq.), as implemented in Chapter 62-213, Florida Administrative Code (F.A.C.)., pursuant to 40 CFR 70 – State Operating Permit Programs.

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).

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 green house gas (GHG) pollutants.

PROJECT REVIEW

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

1. The requirements for Emissions Unit 001 (closed landfill with active collection system) and Emissions Unit 002 (flare) were separated into different subsections of the permit (Subsection A. for EU 001 and Subsection B. for EU 002) to help clarify the different requirements applicable to the individual emissions units.
2. 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.
3. The federal requirements for the reciprocating internal combustion engines (RICE) were listed in the body of the permit under a new Subsection C.
4. 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.
5. Appendix I, List of Insignificant Emissions Units and/or Activities, was updated to remove the previously un-regulated engines (see Item 3.)
6. 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. 0850120-005-AV, which was effective on August 27, 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.