Title V Air Operation Permit Renewal
Permit No. 0310358-015-AV

APPLICANT

The applicant for this project is the City of Jacksonville. The applicant's responsible official and mailing address are: Cleveland Ferguson, Deputy Chief Administrative Officer, City of Jacksonville, Public Works Department, 117 West Duval Street, Suite 400, Jacksonville, Florida 32202.

FACILITY DESCRIPTION

The applicant operates the existing Trail Ridge Landfill, which is located in Duval County at 5110 U. S. Highway 301 South, Baldwin, Florida.

The existing Trail Ridge Landfill is located at 5110 U. S. highway 301 South, Baldwin, Duval County, Florida. It is a Class I municipal solid waste landfill owned by Trail Ridge Landfill, Inc. and operated by Waste Management.

The landfill currently consists of 427 acres which commenced construction in 1992. It receives approximately 2,500 to 3,000 tons of waste daily; has a total site area of 977 acres of land; and, currently has a 427 acre "footprint". The landfill serves both residential and commercial customers.

Landfill gas produced from the decomposition of disposed waste is collected from both active and capped cells by an active gas recovery system at the landfill. The collected gas is either transferred to Trail Ridge Energy where it is treated and used as fuel to power six (6) internal combustion engines to produce electricity; or, it is combusted by Trail Ridge Landfill in a 5,000 scfm open flare.

The facility also has two (2) Cummins diesel powered emergency generators.

REGULATED EMISSIONS UNIT IDENTIFICATION NUMBERS AND DESCRIPTIONS

EU No.	Brief Description
001	Municipal Solid Waste Landfill
004	Internal Combustion Engine (#1)
005	Internal Combustion Engine (#2)
006	Internal Combustion Engine (#3)
007	Internal Combustion Engine (#4)
008	Internal Combustion Engine (#5)
009	Internal Combustion Engine (#6)
010	5,000 SCFM Open, Non-assisted Utility Flare
016	Emergency Diesel Generator
017	Emergency Diesel Generator

APPLICABLE REGULATIONS

Based on the Title V air operation permit renewal application received on September 22, 2014, this facility is not a major source of hazardous air pollutants (HAP). The existing facility is a prevention of significant deterioration (PSD) major source of air pollutants in accordance with Rule 62-212.400, F.A.C. A summary of applicable regulations is shown in the following table:

Regulation	EU No(s).
Federal Rule Citations	
40 CFR 60, Subpart A, NSPS General Provisions	001, 010
40 CFR 60, Subpart WWW, Standards of Performance for Municipal Solid Waste Landfills	001, 010
Appendix 40 CFR 61 Subpart A – General Provisions - NESHAP	001
Appendix 40 CFR 61 Subpart M (Set A) – NESHAP For Asbestos	001
40 CFR 63, Subpart A, General Provisions	001, 004, 005, 006, 007, 008, 009, 010, 016, 017
40 CFR 63, Subpart AAAA, National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills	001, 010
40 CFR 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines	004, 005, 006, 007, 008, 009, 016, 017
State Rule Citations	
Rule 62-4, Florida Administrative Code (F.A.C.) (Permitting Requirements)	001, 004, 005, 006, 007, 008, 009, 010, 016, 017
Rule 62-204, F.A.C. (Ambient Air Quality Requirements, PSD Increments, and Federal Regulations Adopted by Reference)	001, 004, 005, 006, 007, 008, 009, 010, 016, 017
Rule 62-210, F.A.C. (Permits Required, Public Notice, Reports, Stack Height Policy, Circumvention, Excess Emissions, and Forms)	001, 004, 005, 006, 007, 008, 009, 010, 016, 017
Rule 62-213, F.A.C. (Title V Air Operation Permits for Major Sources of Air Pollution)	001, 004, 005, 006, 007, 008, 009, 010, 016, 017
Rule 62-297, F.A.C. (Test Methods and Procedures, Continuous Monitoring Specifications, and Alternate Sampling Procedures)	001, 004, 005, 006, 007, 008, 009, 010, 016, 017

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.

PROCESSING SCHEDULE AND RELATED DOCUMENTS

Initial Title V Air Operation Permit issued August 9, 1999
Application for a Title V Air Operation Permit Renewal received September 22, 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.).

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 reported emissions of approximately 62,221 metric tons of greenhouse gas (GHG) pollutants for calendar year 2013.

PROJECT REVIEW

Changes to the permit made as part of this renewal are:

Emission Unit ID 002 "Fugitive Dust Emissions from unpaved roads and landfill work areas" was removed as a regulated emissions unit from the renewed Title V permit. These activities are addressed in the Facility-wide Conditions of Section II.

An Emission Unit ID 011 "A de-rated 1,600 scfm Open, Non-Assisted Flare" " was removed as a regulated emissions unit from the renewed Title V permit. This emissions unit will not be installed at the facility.

Emission Unit IDs 012 – 015 "Caterpillar Model G3520C landfill gas fueled internal combustion engines and electricity generators" were removed as a regulated emissions unit from the renewed Title V permit. These emissions units will not be installed at the facility.

The item "(2) Emergency backup generators**" was removed from Appendix I - List of Insignificant Emissions Units and/or Activities and was added to the permit as regulated emissions units, Emission Unit IDs 016 and 017 "Emergency Diesel Generators".

Appendix "Approved Alternative Procedures" was added to the Appendices.

Facility-wide conditions **FW6.**, **FW7.**, and, **Appendix RR, Facility-wide Reporting Requirements** were changed to reflect the new Annual Operating Report and Title V Annual Emissions Fee rule requirements.

CONCLUSION

This project renews Title V air operation permit No. 0310358-010-AV, which was effective on May 10, 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.