TECHNICAL EVALUATION

AND

PRELIMINARY DETERMINATION

I. GENERAL INFORMATION

A. APPLICANT

Trail Ridge Landfill, Inc.
5110 US Highway 301 South
Baldwin, FL 32234

Permit No: 0310358-005-AC
County: Duval
Revision 1

B. PROJECT

On March 21, 2006, the applicant, Trail Ridge Landfill, Inc., applied to the Department for a permit to construct a new flare to control the emissions of landfill gas (NMOC) generated at the Trail Ridge Landfill, Inc., 5110 US Highway 301 South, Baldwin, FL, 32234. The new flare which has a capacity to combust approximately 5000 cubic feet per minute of landfill gas will replace the existing flare which has a capacity to combust approximately 3100 cubic feet per minute of landfill gas.

II. RULE APPLICABILITY

The facility is located in an area unclassifiable for the air pollutant particulate matter (PM) less than or equal to ten (10) micrometers, in the area of influence of an air quality maintenance area for PM, and in an air quality maintenance area for ozone pursuant to Chapter 62-204, Florida Administrative Code (FAC), and Jacksonville Environmental Protection Board (JEPB), Rule 2.201.

The facility is a major source of air pollution because the potential emissions of regulated air pollutants are greater than 100 tons per year pursuant to Chapter 62-210, FAC, and Rule 2.301, JEPB, and is a major source because the facility has a design capacity greater than 2.5 million megagrams and 2.5 million cubic meters in accordance with 40 CFR 60.752(c).

This permit is for the construction of a new flare to control the emissions of landfill gas (NMOC) generated at the Trail Ridge Landfill, Inc., Baldwin, FL.

The provisions of 40 CFR 60, Subpart A, General Provisions, Subpart WWW, Standards of Performance for Municipal Solid Waste Landfills, 40 CFR 63, Subpart A, General Provisions, and 40 CFR 63, Subpart AAAA, [National Emission Standards for Hazardous Air Pollutants] Municipal Solid Waste Landfills, applies to the designated facility.
[40 CFR 60, Subpart(s) A, and WWW, 40 CFR 63, Subpart(s) A, and AAAA, Rule 62-204.800, FAC, and Rule 2.201, JEPB]

The facility is concurrently under going a Prevention of Significant Deterioration (PSD) review [processed by the Department of Environmental Protection (DEP) Tallahassee, FL permitting office] for the installation of six (6) internal combustion engines at the landfill site to combust generated landfill gas (NMOC).

III. TECHNICAL EVALUATION

The new flare (open, non assisted) is subject to requirements as referenced in 40 CFR 60.18 for flares. Parameters which are limited are visible emissions [as determined by Environmental Protection Agency (EPA) Reference Method (RM) 22], net heating value of the landfill gas as combusted, and exit velocity of the flare. The determination of the presence of a flame shall be monitored at all times.

Testing Requirements

Testing and calculation procedures shall be determined in accordance with the requirements of 40 CFR 60.18.

Record-Keeping and Reporting Requirements

Notification requirements for actual start-up dates and commencement of construction dates are specified in the permit.

IV. CONCLUSION

Based upon information provided by the Trail Ridge Landfill, Inc. the Department has reasonable assurance that the proposed construction of the new flare, as described in this evaluation and subject to the conditions proposed herein, will not cause, or contribute to a violation of any ambient air quality standard or other technical provision of Chapters 62-296 and 62-297, FAC, JEPB Rules 2.1001 and 2.1101.