

## **STATEMENT OF BASIS**

Seminole County Board of County Commissioners  
Osceola Road Solid Waste Management Facility  
Facility ID No.: **1170084**  
Seminole County

Title V Air Operation Permit Revision  
**DRAFT** Permit Project No.: **1170084-007-AV**  
Revision of Title V Air Operation Permit No.: 1170084-006-AV

This Title V Air Operation Permit Revision is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210 and 62-213. The above named permittee is hereby authorized to operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

The subject of this draft permit 1170084-007-AV is the revision of Title V Air Operation Permit No. 1170084-006-AV for the purpose of including four Caterpillar, Model G3520C, 2,233 bhp landfill gas fired internal combustion engines for the generation of up to 6.4 total megawatts of electricity (1.6 megawatts each) at the Osceola Road Solid Waste Management Facility. Facility-wide individual and combined hazardous air pollutant (HAP) emissions are limited to establish the facility as a synthetic minor for HAPs. This facility is located at 1930 East Osceola Road; UTM Coordinates: Zone 17, 492.00 km East and 3184.50 km North; and, Latitude: 28° 47' 30" North and Longitude: 81° 04' 42" West.

Seminole County operates the Osceola Road Solid Waste Management Facility (landfill). This is an active, Class I landfill that began receiving waste in 1970. It has a design capacity of 45,000,000 cubic yards. It is also an active asbestos waste disposal site. There is no bioreactor at the landfill. Non-methane organic compound (NMOC) emissions are calculated to be equal to or greater than 50 megagrams per year. Landfill gas emissions have been collected and controlled since 1999. The landfill currently has two candlestick flares and four internal combustion engines with electric generators. The flares shall be operated with the flame present at all times landfill gas is being routed to the flares as determined by a thermocouple, but are not subject to compliance assurance monitoring (CAM) under 40 CFR Part 64.

Based on the Title V Air Operation Permit Revision application received May 1, 2008, the landfill is not a major source of HAPs, but is a major source of non-HAP pollutants.

E.U. 001 – Landfill Facility with Two Flares - The facility is subject to: 40 CFR Part 60, Subparts A (General Provisions) and WWW (Standards of Performance for Municipal Solid Waste Landfills); 40 CFR Part 63, Subparts A (General Provisions) and AAAA (National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills); with the exception of the candlestick flare control system, which shall have no visible emissions per 40 CFR Part 60.18(c)(1), the facility is subject to the General Visible Emissions (VE) limit of less than 20 percent per Rule 62-296.320(4)(b)1., F.A.C., VE testing of the candlestick flare is required annually; the General Volatile Organic Compound (VOC) standard per Rule 62-296.320(1)(a), F.A.C.; and the Objectionable Odor Rule per Rule 62-296.320(2), F.A.C.

E.U. 002, 003, 004, 005 – Four Internal Combustion Engines - The facility was reviewed under Rule 62-210.200(185)(a)3, F.A.C., New Source Review (NSR) for Prevention of Significant Deterioration (PSD). The engines are also subject to 40 CFR 63, Subpart ZZZZ, NESHAP for Stationary Reciprocating Internal Combustion Engines.

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