

Fact Sheet



For Final Minor Modification Permitting Action Under 45CSR30 and Title V of the Clean Air Act

This Fact Sheet serves to address the changes specific to this Minor Modification, and shall be considered a supplement to the original Fact Sheet corresponding with the issuance of the initial Title V operating permit issued on December 14, 2005, and the Fact Sheet from MM01 issued on March 28, 2007.

Permit Number: **R30-03900461-2005**

Plant Identification Number: **039-00461**

Permittee: **City of Charleston**

Facility Name: **City of Charleston Sanitary Landfill**

Mailing Address: **P. O. Box 2749, Charleston, WV 25330**

Permit Action Number: *MM02*; Revised: *October 14, 2009*

Physical Location:	Charleston, Kanawha County, West Virginia
UTM Coordinates:	445.92 km Easting • 4240.52 km Northing • Zone 17
Directions:	From the City of Charleston take I 64 east to Exit 98 (35 th St.). Turn right off of 35 th St. onto SR61 (MacCorkle Ave. SE) and go approximately 0.15 miles. Turn left onto South Park Road. Follow South Park Road to the landfill.

Facility Description

The Charleston Sanitary Landfill is a municipal solid waste (MSW) management facility that operates under SIC Code 4953. The landfill accepts municipal solid waste, construction/demolition/debris (CDD), and approved residual waste streams. The Landfill is comprised of three disposal areas commonly referred to as Areas C1, A, and C. Area C is the only active disposal area.

The Minor modification (MM02) was received on March 31, 2009 and covers changes included in recently revised Permit R13-2667A (issued on June 29, 2009). This permitting action is primarily concerned with installation of Landfill Gas Collection and Control System (GCCS) and LFG to electricity plant.

The primary purpose of the proposed GCCS at the Charleston Landfill is that the LFG is to be converted to electricity by the use of reciprocating internal combustion engines. In this process, the LFG will serve as the fuel for the engines. This process also includes the use of a high efficiency flare (23C) to destroy LFG through incineration. This is an addition to the 20 flares currently permitted under R13-2667A.

Emissions Summary

The emission changes under this minor modification are follows:

Criteria Pollutants	MM02 Increase in PTE (Tons per year)
Carbon Monoxide (CO)	41.07
Nitrogen Oxides (NO _x)	31.36
Particulate Matter (PM ₁₀)	5.0
Total Particulate Matter (TSP)	5.0
Sulfur Dioxide (SO ₂)	2.97

Title V Program Applicability Basis

With the proposed changes associated with this minor modification, this facility maintains the design capacity over 2.5 million megagrams, which is the Title V applicability threshold set forth by 40 C.F.R. §60.752(b). Due to this facility's design capacity, the City of Charleston Sanitary Landfill is required to have an operating permit pursuant to Title V of the Federal Clean Air Act as amended and 45CSR30.

Legal and Factual Basis for Permit Conditions

The State and Federally-enforceable conditions of the Title V Operating Permits are based upon the requirements of the State of West Virginia Operating Permit Rule 45CSR30 for the purposes of Title V of the Federal Clean Air Act and the underlying applicable requirements in other state and federal rules.

Federal and State:	45CSR13	Construction permit requirement.
	45CSR30	Operating permit requirement.
	45CSR6	To Prevent and control Air Pollution From Combustion of Refuse
	45CSR16	Standards of Performance for New Stationary Sources Pursuant to 40 CFR Part 60
	45CSR23	To Prevent and Control Emissions From Municipal Solid Waste Landfills
	40CFR60 Subpart WWW	Standards of Performance for Municipal Solid Waste Landfills
	40CFR60 Subpart JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

State Only: Not applicable.

Each State and Federally-enforceable condition of the draft Title V Operating Permit references the specific relevant requirements of 45CSR30 or the applicable requirement upon which it is based. Any condition of the draft Title V permit that is enforceable by the State but is not Federally-enforceable is identified in the draft Title V permit as such.

The Secretary's authority to require standards under 40 C.F.R. Part 60 (NSPS), 40 C.F.R. Part 61 (NESHAPs), and 40 C.F.R. Part 63 (NESHAPs MACT) is provided in West Virginia Code §§ 22-5-1 *et seq.*, 45CSR16, 45CSR34 and 45CSR30.

Active Permits/Consent Orders (associated with this minor modification only)

Permit or Consent Order Number	Date of Issuance	Permit Determinations or Amendments That Affect the Permit (<i>if any</i>)
R13-2667A	7/1/2009	

Determinations and Justifications

The Title V minor modification (MM02) includes the following changes approved under R13-2667A :

Control Devices 21C, 22C and 23C were added to section 1.0, Emission Units Table due to installation of Landfill Gas Collection and Control System (GCCS) and LFG to electricity plant.

As a result of the inclusion of R13-2667A requirements, sections 5 and 6 concerning the internal combustion engines have been added to the Title V Permit.

4.1.11 through 4.1.17, 4.2.2, 4.2.3, 4.3.2, 4.4.3 through 4.4.8, and 4.5.6.

Conditions 4.1.8, 4.1.10 and 4.3.1 were in R13-2667, but not included in R13-2667A. Since these conditions are applicable, they were kept in this permit.

Condition 4.4.2 was in R13-2667, but not included in R13-2667A. Since this condition is a monitoring requirement, it was kept in this permit.

Non-Applicability Determinations

None.

Request for Variances or Alternatives

None.

Insignificant Activities

Insignificant emission unit(s) and activities are identified in the Title V application.

Comment Period

Public comment period is not applicable for minor modifications.

Procedure for Requesting Public Hearing

During the public comment period, any interested person may submit written comments on the draft permit and may request a public hearing, if no public hearing has already been scheduled. A request for public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. The Secretary shall grant such a request for a hearing if he/she concludes that a public hearing is appropriate. Any public hearing shall be held in the general area in which the facility is located.

Point of Contact

Beena Modi
West Virginia Department of Environmental Protection
Division of Air Quality
601 57th Street SE
Charleston, WV 25304
Phone: 304/926-0499 ext. 1228• Fax: 304/926-0476

Response to Comments (Statement of Basis)

EPA Region 3 has requested that all annual compliance certifications be submitted electronically (e-mail), so the permit templates have been updated in conditions 3.5.3.and 3.5.5.