

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHCENTRAL REGION - FIELD OPERATIONS
AIR QUALITY PROGRAM

NSPS

OPERATING PERMIT

In accordance with provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and after due consideration of an application received under Chapter 127 of the rules and regulations of the Department of Environmental Protection, the Department hereby issues this permit for the operation of the air contamination source described below.

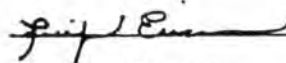
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|---|--|
| Permit No: <u>67-02047</u> | Source & Air Cleaning Device: <u>Landfill Gas Extraction System</u> |
| Owner: <u>Waste Management Disposal Services of Pa., Inc.</u> | <u>Controlled by Three Internal Combustion Engines and Enclosed Ground Flare</u> |
| Address: <u>4400 Mount Pisgah Road</u> <u>York, PA 17402</u> | <u>(See Attached)</u> |
| Attention: <u>Mr. Tim O'Donnell</u> <u>General Manager</u> | Location: <u>Modern Landfill</u> <u>Lower Windsor & Windsor Townships</u> <u>York County</u> |

This permit is subject to the following conditions:

1. That the source and any associated air cleaning devices are to be:
 - a. operated in such a manner as not to cause air pollution;
 - b. in compliance with the specifications and conditions of the Reasonably Available Control Technology (RACT) plan;
 - c. operated and maintained in a manner consistent with good operating and maintenance practices.
2. This permit is valid only for the specific equipment, location and owner named above.
3. This operating permit is valid for a limited time only and may be renewed before its expiration. Requests for an operating permit renewal must be in writing and must be accompanied by a fee in the amount of \$600 payable to the "Commonwealth of Pennsylvania - Clean Air Fund." The request should be made on the attached Interim Application for Renewal of a Permit to Operate form and must be received by the Department along with a completed Compliance History form (attached) no later than 5/1/99.
4. See attached.

Failure to comply with the conditions placed on this permit is a violation of Section 127.444. Violation of this or any other provision of Article III of the rules and regulations of the Department of Environmental Protection will result in suspension or revocation of this permit and/or prosecution under Section 9 of the Air Pollution Control Act.

Issued: APR 20 1999


Program Manager

York District
Permits

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WASTE MANAGEMENT DISPOSAL SERVICES OF PA., INC.

Sources, ContinuedSources

| | |
|---|--|
| Landfill (Closed site, Southwest Expansion, and Northwest Expansion) | Capacity - 41.19 million bcy* (Approximately 31.3 million tons) |
| Leachate & Groundwater Treatment Plant | Controlled by Two Aeration Towers |

*banked cubic yards

The enclosed flare will be operated at landfill gas flow rates no greater than those shown below:

| <u>Description</u> | <u>Maximum Flow Rate</u> |
|------------------------------------|--------------------------|
| All Three Engines in Operation | 1,900 cfm |
| One Engine Down; Two in Operation | 2,900 cfm |
| Two Engines Down; One in Operation | 3,900 cfm |
| All Engines Down | 4,900 cfm |

Conditions, Continued

- All collected landfill gas shall be controlled by the IC engines or enclosed ground flare.

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Conditions, Continued

7. The flaring system design shall incorporate the following criteria:
 - a. The flare shall be operated to have a flue gas retention time of 0.5 seconds within the flare enclosure (as documented by the design standards) at a minimum operating temperature of 1,500°F or the average temperature occurring during the compliance test. The flare will be allowed an appropriate warm-up sequence, in accordance with the manufacturer's specifications, to attain this minimum operating temperature.
 - b. The flare shall be equipped with a pilot ignition source using an auxiliary fuel. Use of the auxiliary fuel shall be continuous during the restart sequence.
 - c. The flare shall be operated with a flame present at all times. The flare shall be equipped with an automatic shut-off mechanism designed to immediately stop the flow of landfill gas when a "flame-out" occurs. During restart or start-up, there shall be sufficient flow of auxiliary fuel to the burners to light the pilot and maintain a stable flame before landfill gas is delivered to the burners, such that unburned landfill gas is not emitted to the atmosphere. This condition does not apply to the time "air purge" sequence (for removal of fugitive hydrocarbons from the flare enclosure) during restart or start-up.
 - d. The flue gas temperature shall be continuously measured and recorded.
 - e. The flow of landfill gas shall be measured and recorded.
 - f. The flare shall be operated with no visible opacity emissions.
8. The Department shall be notified by telephone within 48 hours following detection of any unanticipated positive pressure event that last longer than two hours. All other positive pressure events shall be recorded and kept on file at the site for five years. An unanticipated positive pressure event is any positive pressure reading in equipment not designed to operate under positive pressure, except that attributable to routine equipment maintenance. Routine equipment maintenance includes the following enumerated items and all similar activities:
 - a. gas collection header repairs
 - b. well head repairs or modifications
 - c. well valve repairs or replacements
 - d. temporary well shutdowns or vacuum reductions to minimize or prevent the introduction of excess air into the landfill
 - e. flare station blower repair or replacement
 - f. flare relight system testing or repair
 - g. flare thermocouple or temperature switch repair or replacement

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Conditions, Continued

- h. flare liner inspection, repair or replacement
 - i. flare actuator valve repair or replacement
 - j. flare flame arrestor basket cleaning
 - k. flare control panel agistat timer adjustment or replacement
 - l. condensate trap pump repair or replacement
 - m. condensate tank pumpouts
 - n. electrical service repairs
9. Within ten days following detection of a reported unanticipated positive pressure event required under Condition 8, the permittee shall submit to the Department a brief written notice describing the cause of the unanticipated positive pressure event and the steps taken and/or planned to remedy the occurrence. The notice shall transmit monitoring data indicating that the unanticipated positive pressure event has been abated or, if abatement has yet to be achieved, a supplemental notice and such data shall be forwarded to the Department when abatement is achieved.
10. Routine leak monitoring of gas extraction equipment designed to operate under positive pressure shall be performed quarterly utilizing an instrument detector type meeting the specifications and performance criteria contained in Section 3 of 40 CFR Part 60, Appendix A, EPA Method 21. Supplemental monitoring is required for all equipment experiencing unanticipated positive pressure events. Monitoring shall conform to practices established in an approved landfill gas management system monitoring, operating, and maintenance plan.
11. The owner/operator shall maintain records verifying compliance with Condition 9, including any anticipated positive pressure events such as routine equipment maintenance as outlined in Condition 8.
12. The measured level of 1.25 percent v/v (12,500 ppmv) of total organic compounds measured as methane, or higher, constitutes a leak. Following detection of a leak, secondary testing consisting of application of a soap water solution must be conducted to suspect equipment to precisely locate the leak.
13. Detected leaks shall be repaired as soon as practicable. The Department shall be provided a tentative schedule for completing the repair of any leak not repaired within 72 hours of detection.
14. The company shall monitor the influent and effluent water from each aeration tower on a monthly basis. This monitoring shall be for the following compounds: Benzene, Carbon Tetrachloride, 1,1 Dichloroethane, Methylene, Chloride, Trichloroethylene, and Vinyl Chloride. The results shall be submitted to the Air Quality Program Manager by March 1 of each year for the samples taken in the previous year.

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Conditions, Continued

15. The company shall comply with the applicable record keeping and reporting requirements addressed in 25 Pa. Code Chapter 129.95.
16. Records shall be maintained for a period of five years at the facility and made available to the Department when requested.

