

21 October 2003

Mr. Gary Raddatz  
Environmental Manager  
Waste Management of RI  
204 Merrimac Street  
Woburn, MA 01801

Dear Mr. Raddatz:

The Department of Environmental Management, Office of Air Resources has reviewed and approved your request for a revision to your minor source permit for fuel burning equipment at your facility located at 65 O'Keefe Lane, Warwick.

Enclosed is a revised minor source permit issued pursuant to our review of your application (Approval No. 1756).

If there are any questions concerning this permit, please contact me at 222-2808, extension 7011.

Sincerely,

Douglas L. McVay  
Associate Supervising Engineer  
Office of Air Resources

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS  
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR RESOURCES

MINOR SOURCE PERMIT

*WASTE MANAGEMENT OF RI*

APPROVAL NO. 1756

Pursuant to the provisions of Air Pollution Control Regulation No. 9, this minor source permit is issued to:

*Waste Management of RI*

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For the following:

*Revision removing Condition C.2 to eliminate the requirement of a non-resettable fuel*

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*flow meter to continuously monitor the fuel consumed in the 880 HP Caterpillar Model*

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*3412C diesel-fired engine.*

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Located at: *65 O'Keefe Lane, Warwick*

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**This permit shall be effective from the date of its issuance and shall remain in effect until revoked by or surrendered to the Department. This permit does not relieve *Waste Management of RI* from compliance with applicable state and federal air pollution control rules and regulations. The design, construction and operation of this equipment shall be subject to the attached permit conditions and emission limitations.**

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Stephen Majkut, Chief  
Office of Air Resources

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Date of Issuance

**STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS**  
**DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**  
**OFFICE OF AIR RESOURCES**

Permit Conditions and Emission Limitations

**WASTE MANAGEMENT OF RI**

**APPROVAL NO. 1756**

(October 2003 revision)

A. Emission Limitations

1. Nitrogen oxides (as Nitrogen dioxide (NO<sub>2</sub>))
  - a. The emission rate of nitrogen oxides discharged to the atmosphere from the 880 HP engine shall not exceed 6.95 grams/bhp-hr unless the rate of emissions is less than 13.5 lbs/hr.
2. Carbon Monoxide (CO)
  - a. The emission rate of carbon monoxide discharged to the atmosphere from the 880 HP engine shall not exceed 1.81 grams/bhp-hr unless the rate of emissions is less than 3.5 lbs/hr.
3. Total Nonmethane Hydrocarbons (NMHC)
  - a. The emission rate of total nonmethane hydrocarbons discharged to the atmosphere from the 880 HP engine shall not exceed 0.15 grams/bhp-hr unless the rate of emissions is less than 0.34 lbs/hr.
4. Sulfur Dioxide (SO<sub>2</sub>)
  - a. All diesel fuel burned in the 880 HP engine shall contain no more than 0.05 percent sulfur by weight.
  - b. The emission rate of sulfur dioxide discharged to the atmosphere from the 880 HP engine shall not exceed 0.32 lbs/hr.
5. Particulate Matter (PM)
  - a. The emission rate of particulate matter discharged to the atmosphere from the 880 HP engine shall not exceed 0.5 grams/bhp-hr unless the rate of emissions is less than 0.95 lbs/hr.

6. Opacity
  - a. Visible emissions from the 880 HP engine shall not exceed 10% opacity except for a period or periods aggregating no more than three minutes in any one hour. This visible emission limitation shall not apply during startup of an engine. Engine startup shall be defined as the first five minutes of firing following the initiation of firing.

B. Operating Requirements

1. The owner/operator shall limit the quantity of diesel fuel combusted in the 880 HP engine to 334,000 gallons or less for any consecutive 12-month period.

C. Continuous Monitoring

1. The engine shall be equipped with a non-resettable elapsed time meter to indicate, in cumulative hours, the elapsed engine operating time.

D. Fuel Oil Testing

1. Compliance with the diesel fuel sulfur limit may be determined based on a certification from the fuel supplier. Fuel supplier certifications shall include the following information:
  - a. The name of the fuel supplier;
  - b. The sulfur content of the fuel from which the shipment came or the shipment itself;
  - c. The location of the fuel when the sample was drawn for analysis to determine the sulfur content of the fuel, specifically including whether the fuel was sampled as delivered to Waste Management of RI or whether the sample was drawn from fuel in storage at the fuel supplier's facility or another location;
  - d. The method used to determine the sulfur content of the fuel.
2. As an alternative to fuel supplier certification, the owner/operator may elect to sample the fuel prior to combustion. Sampling and analysis shall be conducted for the fuel in the initial tank(s) of fuel to be fired in the engine and after each new shipment of fuel is received. Samples shall be collected from the fuel tank immediately after the fuel tank is filled and before any fuel is combusted.

E. Record Keeping and Reporting

1. The owner/operator shall, on a monthly basis, no later than 10 days after the first of each month, determine and record the hours of operation and fuel use for the engine for the previous month. The owner/operator shall keep records of this determination and provide such records to the Office of Air Resources or its authorized representative upon request.
2. The owner/operator shall notify the Office of Air Resources, in writing, whenever the combined quantity of diesel fuel combusted in the 880 HP engine exceeds 334,000 gallons for any consecutive 12-month period.
3. The owner/operator shall notify the Office of Air Resources of any anticipated noncompliance with the terms of this permit or any other applicable air pollution control rules and regulations.
4. The owner/operator shall maintain copies of all fuel supplier certifications or fuel analyses and these copies shall be made accessible for review by the Office of Air Resources or its authorized representative and EPA. These records shall include a certified statement, signed by the owner/operator of the facility, that the records represent all of the fuel combusted at the facility
5. The owner/operator shall notify the Office of Air Resources, in writing, of any planned physical or operational change to any equipment that would:
  - a. Change the representation of the facility in the application.
  - b. Alter the applicability of any state or federal air pollution rules or regulations.
  - c. Result in the violation of any terms or conditions of this permit.
  - d. Qualify as a modification under APC Regulation No. 9.

Such notification shall include:

- Information describing the nature of the change.
- Information describing the effect of the change on the emission of any air contaminant.
- The scheduled completion date of the planned change.

Any such change shall be consistent with the appropriate regulation and have the prior approval of the Director.

6. The owner/operator shall notify the Office of Air Resources, in writing, of any noncompliance with the terms of this permit within 30 calendar days of becoming aware of such occurrence and supply the Director with the following information:
  - a. The name and location of the facility;
  - b. The subject source(s) that caused the noncompliance with the permit term;
  - c. The time and date of first observation of the incident of noncompliance;
  - d. The cause and expected duration of the incident of noncompliance;
  - e. The estimated rate of emissions (expressed in lbs/hr or lbs/day) during the incident and the operating data and calculations used in estimating the emission rate.
  - f. The proposed corrective actions and schedule to correct the conditions causing the incidence of noncompliance.
7. All records required as a condition of this approval must be made available to the Office of Air Resources or its representative upon request. These records must be maintained for a minimum of five years after the date of each record.

F. Fugitive Dust

1. No visible fugitive emissions shall leave the property from the grinder, associated sources and service roads within the facility. Compliance with the standard of no visible fugitive emissions shall be determined by a standard of no visible emissions exceeding 30 seconds in duration in any six-minute period as determined using 40 CFR 60, Appendix A, Test Method 22.
2. Opacity of visible emissions from the grinder shall not exceed 15 percent (6-minute average) as determined using 40 CFR 60, Appendix A, Test Method 9.
3. Service roads within the facility shall be maintained and controlled in such a manner as to minimize the potential for the generation of fugitive dust emissions.
4. All open storage areas and/or piles of material which may produce fugitive dust shall be covered, watered down, or implement other precautions, as necessary, to prevent generation of dust.
5. Adequate precautions shall be taken to prevent fugitive dust emissions from the storage, handling or transporting of material capable of releasing dust.

G. Other Permit Conditions

1. To the extent consistent with the requirements of this approval and applicable Federal and State laws, the facility shall be designed, constructed and operated in accordance with the representation of the facility in the permit application dated 12 May 2003.
2. Employees of the Office of Air Resources and its authorized representatives shall be allowed to enter the facility at all times for the purpose of inspecting any air pollution source, investigating any condition it believes may be causing air pollution or examining any records required to be maintained by the Office of Air Resources.
3. At all times, including periods of startup, shutdown and malfunction, the owner/operator shall, to the extent practicable, maintain and operate the facility in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Office of Air Resources which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures and inspection of the source.
4. Approval No. 1716 issued for the installation of the 750 HP Caterpillar diesel-fired engine is revoked. This revocation will become effective upon start-up of the 880 HP Caterpillar diesel-fired engine (Approval No. 1756).