

Western Farm Crematory
Facility I.D. 0247050918
Permit to Install no. 02-12252

Additional Special Terms and Conditions

A. Applicable Emission Limitations and/or Control Requirements

1. Particulate emissions from emissions units N003 and N004 shall not exceed 0.10 pounds per one hundred (100) pounds of liquid, semi-solid, or solid refuse and salvageable material charged.
2. Visible particulate emissions from emissions units N003 and N004 shall not exceed five percent opacity, as a six-minute average.

B. Operational Restrictions

1. Emissions units N003 and N004 shall be installed, operated, and maintained in accordance with the manufacturer's specifications. The permittee shall adhere to the emissions unit's start-up sequence, preheating procedures, and cool-down cycle:
 - a. Start-up: During start-up the temperature controller for the secondary chamber shall be set at 1600 degrees Fahrenheit.
 - b. Preheating: For the first cremation of the day, or if there has been a lapse of four hours since the previous cremation, the preheat cycle must be of sufficient duration to allow the secondary chamber to reach a temperature of 1600 degrees Fahrenheit, as measured by the afterburner temperature indicator, before igniting the main burner to start the cremation.
 - c. Cool-down: If more than one cremation per day is scheduled, the company shall allow for a sufficient cool-down period between cremations.
2. Emissions units N003 and N004 shall not be operated unless their respective temperature and opacity monitoring devices are operating properly.

3. The permittee shall not charge emissions units N003 and N004 with "infectious waste" as defined in OAC rule 3745-75-01(C)(4).

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall install, operate, and properly maintain monitoring devices that accurately measure the temperature of the secondary chamber (afterburner) for each emissions units N003 and N004.
2. The permittee shall maintain daily records of the following information for each emissions units N003 and N004:
 - a. for the first cremation of the day - the temperature of the secondary chamber recorded just prior to the main burner ignition;
 - b. for the second, third, or subsequent cremations - the temperature of the secondary chamber recorded just prior to starting the preheat cycle and the temperature of the secondary chamber recorded just prior to main burner ignition; and
 - c. the weight of each charge.

These records shall be maintained in the company's files at the facility for a period of not less than five years and shall be made available to the Director or any authorized representative of the Director for review during normal business hours.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports for all hours of operation during which the charge rate exceeded 350 pounds per hour, including the actual charge rates for all such hours of operation for each emissions units N003 and N004.
2. The permittee shall submit deviation (excursion) reports which provide the following information for each period during which the secondary combustion chamber exhaust gas temperatures for each emissions units N003 and N004 falls below the applicable limitations:
 - a. the date of the excursion;
 - b. the time interval over which the excursion occurred;

- c. the temperature values during the excursion;
 - d. the cause(s) for the excursion; and
 - e. the corrective action which has been or will be taken to prevent similar excursions in the future.
3. The permittee shall submit deviation (excursions) reports on a semi-annual basis, i.e., January 31 and July 31.

E. Testing Requirements

1. Compliance with the particulate matter emission limitation, shall be demonstrated by using USEPA Method 5, as specified in 40 CFR 60, Appendix A.

2. Should the facility need to show compliance with the visible emission limitations of this permit, Method 9, as specified in 40 CFR 60, Appendix A, shall be used.

3. The permittee shall conduct, or have conducted, emission testing for this emissions unit (N003 or N004) in accordance with the following requirements:

a. The emission testing shall be conducted within ninety (90) days of start-up operations.

b. The emission testing shall be conducted to demonstrate compliance with the 0.10 pound of particulate matter per 100 pounds of material charged emission limit.

c. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing

procedures provide a valid
the emissions unit and/or the

characterization of the emissions from
performance of the control equipment.

A comprehensive written report on the results of the emissions
test(s) shall be signed by the person or persons responsible for the
tests and submitted to the appropriate Ohio EPA District Office or
local air agency within 30 days following completion of the test(s). The
permittee may request additional time for the submittal of the written
report, where warranted, with prior approval from the appropriate Ohio
EPA District Office or local air agency.

4. Emission Limitation: 0.53 pounds of Organic Compounds per hour;
Applicable Compliance Method: Compliance with this emission limit shall
be demonstrated by utilizing the following equation:

$$E = 3.0 \text{ (lbs. OC/ton)} \times 350 \text{ (lbs./hour)} \times 1/2000 \text{ (tons/lbs.)}$$

factor
and
emission rate
where : 3.0 pounds of organic compounds per ton is the emission
taken from AP-42, "Section 2.1 Refuse Combustion", Table 2.1-12.
350 lbs/hour is maximum capacity of incinerator and E is the
in pounds per hour.

5. Emission Limitation: 0.53 pounds of Nitrogen Oxides per hour;
Applicable Compliance Method: Compliance with this emission limit shall
be demonstrated by utilizing the following equation:

$$E = 3.0 \text{ (lbs. NOx/ton)} \times 350 \text{ (lbs./hour)} \times 1/2000 \text{ (tons/lbs.)}$$

taken
350
rate in
where : 3.0 pounds of nitrogen oxides per ton is the emission factor
from AP-42, "Section 2.1 Refuse Combustion", Table 2.1-12. and
lbs/hour is maximum capacity of incinerator and E is the emission
pounds per hour.

6. Emission Limitation: 1.75 pounds of Carbon Monoxide per hour;
Applicable Compliance Method: Compliance with this emission limit shall
be demonstrated by utilizing the following equation:

$$E = 10.0 \text{ (lbs. CO/ton)} \times 350 \text{ (lbs./hour)} \times 1/2000 \text{ (tons/lbs.)}$$

factor
where : 10.0 pounds of carbon monoxide per ton is the emission
taken from AP-42, "Section 2.1 Refuse Combustion", Table 2.1-12.

and
emission rate

350 lbs/hour is maximum capacity of incinerator and E is the
in pounds per hour.

F. **Miscellaneous Requirements**

None