

Lane Regional Air Pollution Authority
Minimal Source Air Contaminant Discharge Permit

REVIEW REPORT

Buell Chapel

Permit No. 200539

PERMITTING

Permitting Action

1. The action is a renewal for an existing "Minimal" Air Contaminant Discharge Permit (ACDP), which was issued on June 1, 1996, with an expiration date of May 31, 2001.

Location Area Attainment Status

2. The source is located in an attainment area for all pollutants except PM₁₀ (particulate matter less than 10 microns in size). The Eugene/ Springfield Air Quality Management Area is a non-attainment area for PM₁₀. The Eugene/ Springfield Air Quality Management Area is an attainment area for the criteria pollutants PM, CO, VOC, NO_x, and SO_x.

SOURCE DESCRIPTION

Overview

3. The source operates a human crematory unit and a separate animal crematory unit. The human crematory unit received construction approval from LRAPA on April 15, 1976 and was operational in 1976. The human crematory unit is defined as an existing unit since it was constructed or modified prior to March 13, 1990, (OAR 340-0255-0855(13)), and must meet a 1600° F final combustion chamber temperature during the course of cremation. The animal crematory unit was installed in 1995 and must meet the 1800° F final combustion chamber temperature required of new units. The facility in the year 2000 conducted 168 human and 248 animal cremations and normally operates during what may be considered a normal 8 hours-per-day, 5 days-per-week, work week.
4. Except for the addition of the animal crematory unit there have been no changes to the source since initially permitted.

Process and Control Devices

5. The source operates an "All" Crematory unit model No. L-1701. The crematory, fueled by natural gas, was put in service in 1976 and is in service as a human crematory unit. The facility also operates a separate IEE Model IE43 "Power Pak Junior" crematory unit fueled by natural gas and installed in 1995. This unit is in service as an animal crematory unit. Emissions are controlled on both units, as required by regulation, by secondary combustion chambers (after-burner). Exhaust gases from the after-burner are vented to the atmosphere.

EMISSIONS

6. Emissions for this source are expected to be minimal and consist mainly of particulate matter (PM) and products of combustion from the auxiliary fuel.

A source performance PM stack test, as required by regulation, was performed on the human crematory unit by Horizon Engineering on February 18, 1993. The result of the PM stack test was 0.017 gr/dscf corrected to 7% O₂. The PM limit, as stated in LRAPA 30-045(1), is 0.08 gr/dscf. The average pound-per-hour PM emission rate was 0.074. A source performance PM stack test, as required by regulation, was performed on the animal crematory unit by Horizon Engineering on August 23, 1995. The result of the PM stack test was 0.017 gr/dscf corrected to 7% O₂. The PM limit, as stated in LRAPA 30-045(1), is 0.08 gr/dscf. The average pound-per-hour PM emission rate was 0.1. Typical cremation duration is at worst case 2 hours for human and 1.5 hours for animal. At 168 human and 248 pet cremations, PM emissions were approximately 75 pounds for the year 2000.

MINIMAL PERMIT DETERMINATION

7. The Authority has determined that the source qualifies as a minimal source for the following reasons:
 - a. Emissions from this source are less than 5 tons per year of PM and less than 10 tons per year for the criteria gaseous pollutants.
 - b. The source was inspected on June 29, 2001 and found to be in compliance with permit conditions.

SPECIAL CONDITIONS (Optional)

8. Not applicable.

NESHAPS APPLICABILITY

9. There are no sources at this facility for which NESHAPS standards have been promulgated.

NSPS APPLICABILITY

10. There are no sources at this facility for which NSPS standards have been promulgated.

REPORTS

11. As directed by the Authority.

ENFORCEMENT HISTORY

12. There have been no enforcement actions against this source.

PUBLIC NOTICE

Renewal

13. The draft permit was placed on public notice from November 21, 2001 to December 21, 2001. No written comments were received during the 30-day comment period.

JM/cmw
11/14/01