

Lane Regional Air Pollution Authority
Minimal Source Air Contaminant Discharge Permit

REVIEW REPORT

Smith-Lund-Mills Funeral Chapel Crematorium

Permit No. 207518

PERMITTING

Permitting Action

1. The action is a renewal for an existing Air Contaminant Discharge Permit (ACDP), which was issued on March 31, 1995, with an expiration date of March 30, 2000. Since the last renewal, it was modified to change the permit type from Regular to Minimal on March 27, 1997.

Location Area Attainment Status

2. Smith-Lund-Mills Funeral Chapel is located in Cottage Grove, which is in attainment of National Air Quality Standards for criteria pollutants PM, CO, VOC, NO_x, and SO_x.

SOURCE DESCRIPTION

Overview

3. The source operates a human crematory, construction completed March 14, 1995. The crematory unit is defined as a new unit since it was constructed or modified after March 13, 1990, (OAR 340-0255-0855(13)), and must meet an 1800° F after-burner temperature during the course of cremation. The source presently conducts 120 to 130 cremations per year and normally operates during what may be considered a normal 8 hours-per-day, 5 days-per-week, work week.
4. There have been no changes to the source since initially permitted.

Process and Control Devices

5. The source operates an Industrial Equipment & Engineering Co. (IEE) Power-Pak II, Model IE43-PPII, crematory unit. The crematory, fueled by natural gas, was put in service in 1995. Emissions are controlled, as required by regulation, by a secondary combustion chamber (after-burner) and 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 by Horizon Engineering on February 16, 1995. The result of the PM stack test was 0.053 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 0.142. Typical cremation duration is at worst case two (2) hours. At 130 cremations, PM emissions would be approximately 40 pounds per year.

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 facility was inspected on March 15, 2000 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 September 10, 2000, to October 10, 2000. No written comments were received during the 30-day comment period.