

M3499
MAWLLDEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: On-site Inspection

M349969115

FACILITY: Southern Michigan Services LLC		SRN / ID: M3499
LOCATION: 12700 Fairlane, LIVONIA		DISTRICT: Detroit
CITY: LIVONIA		COUNTY: WAYNE
CONTACT: James Santeiu ,		ACTIVITY DATE: 09/21/2023
STAFF: Jill Zimmerman	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Target Inspection		
RESOLVED COMPLAINTS:		

DATE OF INSPECTION : September 21, 2023

TIME OF INSPECTION : 9:30 am

INSPECTED BY : Jill Zimmerman

FACILITY PHONE NUMBER : 734-634-0990

FACILITY EMAIL : JSanteiu@hotmail.com; santeiusms@gmail.com

FACILITY BACKGROUND

Southern Michigan Services, LLC is located in Livonia in an industrial area. The facility operates a human crematory with six units.

REQUIRED PPE

During the onsite inspection, I wore steel toed shoes and safety glasses.

COMPLAINT/COMPLIANCE HISTORY

Opacity complaints describing black smoke have been received. An opacity violation has not been verified.

PROCESS EQUIPMENT AND CONTROLS

The facility brings in the bodies which are identified by the funeral home, family and medical examiner. Each body is given a label and a metal coin engraved with the identification code. Typically, a body is cremated within 24 hours of arriving at the facility, through there is refrigeration area available for longer storage. The facility will cremate approximately 40 bodies per day.

The facility operates 6 natural gas fired units. Two newer units are automated, and burn based on the weight. The four older units do not burn charges over 200 pounds. Matthews performs routine maintenance on all the units approximately 2 to 3 times per year.

INSPECTION NARRATIVE

I arrived at the facility, and I met with Matt Dziadzio. Together we discussed the operations of the equipment. There are computer recorders or chart records on the units to record the temperature.

APPLICABLE RULES/PERMIT CONDITIONS

This facility currently has two state air permits (45-18 and 398-07) as well as four Wayne County permits which cover all cremation units (C-9954, C-9955, C-10305 and C-11161).

The conditions for 45-18, which was issued on May 15, 2018, are evaluated below:

The emission unit for this permit is EUCREMATORY6

I. Emission Limits

1. Compliance – The PM limit is 0.20 pounds per 1000 exhaust gas corrected to 50% air. Initially when I arrived at 8:55 am I observed opacity, which dissipated after a few minutes. I was unable to determine which stack had the opacity as there are 6 stacks on the roof.

I. Material Limits

1. Compliance – Only human bodies are burned in this unit.
2. Undetermined – The maximum size of charges was not discussed during the onsite inspection.
3. Compliance – The unit is fueled only by natural gas.

I. Process / Operational Restrictions

1. Compliance – The unit has a temperature set point of 1650 F which is above the permitted minimum temperature of 1600 F.
2. Compliance – Maintenance is preformed on the unit as needed.

I. Design / Equipment Parameter

1. Compliance – The secondary combustion unit is installed and operating properly.
2. Compliance – A temperature monitor is located on the unit and continuously records the temperature while the unit is operating.

I. Compliance – A scale is located onsite.

II. Testing / Sampling NA

III. Monitoring / Recordkeeping

1. Undetermined – Records are maintained by Melissa who was not at the location during the inspection.
2. Compliance – The temperature is continuously recorded when the unit is operating. The daily sheets are kept onsite.
3. Undetermined – Typically the funeral home includes a data sheet with each body that includes a description of the body (name and weight) and this form stays with the ashes when they are returned to the funeral home.
4. Undetermined – Records are maintained by Melissa who was not at the location during the inspection.

- I. Reporting NA
- II. Stack / Vent Restriction

- The conditions for 398-07, which was issued on January 28, 2008, are evaluated below:
The emission unit for this permit is EUCREMATORY4

- The facility has four additional units permitted under Wayne County Permits C-9954 and C-9955 (issued December 7, 1992), C-11161 (issued on March 4, 1996) and C-10305 (unknown issued date). The units have a temperature recording on all the units with a set point of 1650 F.

Southern Michigan Services, LLC is not required to submit MAERS.

Southern Michigan Services, LLC appears to be operating in compliance with all permit condition that were able to be evaluated during the onsite inspection. Due to opacity complaints, additional surveillance should continue for this facility.

SUPERVISOR JK