

N7904  
MANISA

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

N790460002

FACILITY: JENNIFER CREMATION INC		SRN / ID: N7904
LOCATION: 21293 RUSSELL, ROCKWOOD		DISTRICT: Detroit
CITY: ROCKWOOD		COUNTY: WAYNE
CONTACT: Jeff Pilch , Operator		ACTIVITY DATE: 09/14/2021
STAFF: Jill Zimmerman	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Target Inspection		
RESOLVED COMPLAINTS:		

DATE OF INSPECTION : September 14, 2021

TIME OF INSPECTION : 10:00 am

EPA POLLUTANT CLASS : PM

INSPECTED BY : Jill Zimmerman

PERSONEL PRESENT : Jeff Pilch, Operator  
Hillary Martenson, Operator

FACILITY EMAIL ADDRESS : jeffpilch@martenson.com  
hmartenson@martenson.com

#### FACILITY BACKGROUND

Jennifer Cemation Inc. a pathological waste incinerator which can burn only human or animal remains, anatomical parts, and/or tissue, the bags/containers used to collect and transport the waste material, and animal bedding. The facility operates one crematory for humans and recently added a second unit for pets.

#### REQUIRED PPE

During the onsite inspection, I wore steel toed shoes and eye protection.

#### COMPLAINT/COMPLIANCE HISTORY

No complaints have been received since the last inspection on August 11, 2017.

#### PROCESS EQUIPMENT AND CONTROLS

The facility was permitted to operate a Matthews Model Power Pak II used for human cremation. This equipment was natural gas fired with a maximum charge of 750 pounds and a burn rate of 150 pounds per hour. The equipment typically operates three days per week, Tuesday, Thursday, and Friday based on workloads. In 2020,

the facility installed an additional crematory unit, a Therm Tec used for animal “pet” remains. The new unit has a max charge of 300 pounds per hour and a burn rate of 100 pounds per hour.

## **INSPECTION NARRATIVE**

On September 14, 2021, at 10:00 am I met with Mr. Pilch and Ms. Martenson, to discuss the process and any changes to this location. Typically, the human body is brought to the facility and cremated, which takes approximately 3 hours. The facility recently added an additional unit for pet remains. Temperatures for both units were being monitored and recorded. I reviewed the temperature records onsite. The facility maintains chart recorders which records the operating temperatures of the equipment. Both units are fueled by natural gas. The incinerators are allowed to preheat before being used. The facility also records the client number on a form for each client. This form contains the weight of the body being burned and the time in the incinerator. These records were reviewed during the onsite inspection.

## **APPLICABLE RULES/PERMIT CONDITIONS**

The facility operates two pathological incinerators. The unit used exclusively for human remains operates under permit to install 355-07. The special conditions are as follows:

**EU-CREMATORY-1: A Matthews Model Power Pak II natural gas fired human crematory with a maximum charge of 750 pounds.**

**1.1 Compliance – No opacity was observed during the onsite inspection, which indicated compliance with the PM limit.**

**1.2 Compliance – Only human bodies are burn in this unit.**

**1.3 Compliance – The unit operates at 1675 F, which is higher than the minimum operating temperature of 1600 F.**

**1.4 Compliance – The unit appears to be following proper maintenance.**

**1.5 Compliance – The facility is monitoring and recording the operating temperature.**

**1.6 Compliance – The facility currently records the time, a description of the waste and weight of the waste. These records are maintained in a log associated with each body.**

**1.7 Compliance – The facility monitors and records the temperature while the unit is operating.**

**1.8 Compliance – The stack was installed to proper design requirements and has not been changed since it was installed.**

### **Incinerator Operation and Maintenance Guidelines**

1. Compliance – Mr. Pilch, a trained operator, is responsible for operating this unit. He was trained following the recommendations from the manufacturer.
2. Compliance – The unit is cleaned after each body is burned.
3. Compliance – The unit is preheated for approximately 20 minutes.
4. Compliance – The unit is not overloaded, and all waste is loaded based on the manufacturer's instructions.
5. Compliance – The unit operates in a manner to minimize smoke and all emissions.
6. Compliance – Only human bodies are burned in this unit.
7. Compliance – The unit operates based on manufactures recommendations.
8. Compliance – The stack is watched to ensure that minimal smoke and emissions are emitted.
9. Compliance – The manufacturer's manual was located near the unit.
10. Compliance – The operator inspects the equipment on a quarterly basis.

**The unit that operates exclusively for pet remains operates under PTI 88-20. The special conditions are as follows:**

**EU-CREMATORY-2: A Therm Tec natural gas fired crematory used for animal "pet" remains with a maximum charge of 300 pounds.**

- I. Emission Limits: Compliance – The facility is limited to less than 0.2 pounds PM per 1000 pounds exhaust gas. During the onsite inspection, no opacity was observed from this unit while it was operating. Therefore, it can be assumed the facility is in compliance with this emission limit.
- II. Material Limits:
  1. Compliance – The facility only burns animal remains in this unit.
  2. Compliance – The facility is limited to charges of less than 300 pounds.
  3. Compliance – The facility only burns natural gas in this unit

### **III. Process / Operational Restrictions.**

1. Compliance – The unit was operating at about 1600 F during the onsite inspection.
2. Compliance – The unit was installed properly and is being properly maintained.

**IV. Design / Equipment Parameters: Compliance – The facility operates the secondary chamber about the minimum temperature. A temperature recording device is located on the unit and appeared to be operating properly. A scale is present onsite to weigh all charges before being incinerated.**

### **V. Testing / Sampling – NA**

### **VI. Monitoring / Recording**

1. Compliance – All records were up to date during the onsite inspection
2. Compliance – The temperature for the secondary chamber is recorded and monitored.

- 3. Compliance – Daily records including time of burn and description of weight are recorded and were reviewed onsite.
- 4. Compliance – Quarterly records are properly maintained.
- 5. Compliance – Temperature records are properly maintained.
- 6. Compliance – Proper service and maintenance is performed on the unit as needed.

**VII. Reporting: NA**

**VIII. Stack / Vent Restrictions: Compliance – The stack was installed according to the requirements in this permit and has not been modified.**

**IX. Other Requirements: NA**

**MAERS REPORT REVIEW**

NA

**FINAL COMPLIANCE DETERMINATION**

**Jennifer's Cremation Inc. appears to be operating in compliance with Permits 355-07 and 88-20.**

NAME 

DATE 7/29/2022 SUPERVISOR JK