

DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION  
ACTIVITY REPORT: Scheduled Inspection

N564752260

FACILITY: A & K Cremation Services		SRN / ID: N5647
LOCATION: 1821 N LINCOLN RD, ESCANABA		DISTRICT: Upper Peninsula
CITY: ESCANABA		COUNTY: DELTA
CONTACT: Tom Hanson		ACTIVITY DATE: 01/29/2020
STAFF: Sydney Bruestle	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Onsite inspection to verify compliance with PTI 392-95A and all other applicable state and federal air quality regulations.		
RESOLVED COMPLAINTS:		

On January 29, 2020 I (Sydney Bruestle) performed an onsite inspection at A & K Cremation Services located at 1821 North Lincoln Road Escanaba, Michigan. While onsite I met with Tom Hanson, operator at A& K Cremation Services. Mr. Hanson was able to show me the facility and all required records.

**Facility Description:**

A & K Cremation Services operates two human cremation units. One of the units is 25 years old, a Power Pak II natural gas fired unit with a maximum capacity of 650 lbs. A new unit was installed in 2019, a Matthews Environmental Solutions IE43-SPP Plus, this is a multi chamber natural gas fired unit with a maximum capacity of 750 lbs. The facility is a true minor source and operates under Permit to install (PTI) 392-95A.

Compliance requirements for each emission unit are outlined below:

**EUIE43-PPII**

**Emission unit description:**

Power Pak II natural gas incinerator.

**Pollution Control Device:**

Secondary combustion chamber with after burner

**Emission Limit (SC I. 1.)**

PM: 0.20 lb/1000 lbs gas (The facility maintains an opacity of less than 20%, there were no visible emissions from the stack during my inspection)

**Material Limits (SC II. 1.)**

A & K Cremation Services only burns pathological waste in EUIE43-PPII.

**Process/ Operational Restrictions (SC III. 1-3)**

The facility maintains a minimum temperature of 1600 F and a minimum retention time of 1.5 second in the secondary combustion chamber. No waste is charged to the incinerator unless the secondary chamber is preheated to 800 degrees F. During my inspection the temperature of the secondary chamber was 1651 degrees F.

**EUIE43-SPP:**

**Emission unit description:** Matthews IE43-SPP Plus, natural gas, maximum charge: 750 lbs.

**Pollution Control Equipment:**

**Secondary combustion chamber with afterburner**

**Emission Limit (SC I. 1)**

PM: 0.20 lb/ 1000 lbs of gas (The facility maintains an opacity of less than 20%, there were no visible emissions from the stack during my inspection)

**Material Limits (SC II. 1-3)**

The facility only burns pathological waste in EUIE43003-SPP. The unit runs on natural gas and the charge does not exceed 750 lbs. During my inspection the combustion load was 350 lbs.

**Process/Operational Restrictions (SC III. 1-2)**

The facility maintains a minimum temperature of 1600 F and a minimum retention time of 1.5 second in the secondary combustion chamber. During my inspection the temperature was 1678 degrees F.

**Design/Equipment Parameters (SC IV. 1-3):**

The temperature is continuously monitored and recorded on a chart. Each charge is weighed on a scale prior to being combusted in the incinerator.

**Monitoring/Record Keeping (SC VI. 1-6)**

The facility tracks the time, duration of the burn, and charge weight on the computer system of the incinerator. In the future they will track this information on a hand written chart for easier access. I was able to review temperature records for the unit while onsite, temperatures were all above 1600 Degrees F. Maintenance and equipment inspection records were reviewed onsite.

**Compliance Determination:**

At the time of my inspection A & K Cremations services appeared to be in compliance with PTI 392-95A and all other applicable state and federal air quality regulations.

NAME

Sneyden

DATE

01/31/20

SUPERVISOR

EdL