

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

N564765251

FACILITY: A & K Cremation Services		SRN / ID: N5647
LOCATION: 1821 N LINCOLN RD, ESCANABA		DISTRICT: Marquette
CITY: ESCANABA		COUNTY: DELTA
CONTACT: Don Cole , Operator		ACTIVITY DATE: 10/25/2022
STAFF: Lauren Luce	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Targeted Inspection FY23		
RESOLVED COMPLAINTS:		

Facility: A&K Crematory (SRN: N5647)

Location: 1821 N Lincoln Rd, Escanaba, MI 49829

Contact: Don Cole, Operator, (906) 786-6675

Chad Walker, Owner

Regulatory Authority

Under the Authority of Section 5526 of Part 55 of NREPA, the Department of Environment, Great Lakes, and Energy may upon the presentation of their card, and stating the authority and purpose of the investigation, enter and inspect any property at reasonable times for the purpose of investigating either an actual or suspected source of air pollution or ascertaining compliance or noncompliance with NREPA, Rules promulgated thereunder, and the federal Clean Air Act.

Facility Description

A & K Cremation Services operates two human cremation units. The older unit, EUIE43-PPH, is a Power Pak II natural gas fired unit with a maximum capacity of 650 lbs. A new unit, EUIE43-SPP, a Matthews Environmental Solutions IE43-SPP Plus was installed in 2019. This is a multi-chamber natural gas fired unit with a maximum capacity of 750 lbs.

Process Description

Natural gas fired crematories and incinerators that combust human remains. Incinerators used for cremation purposes are called "retorts" and the remains are referred to as "charges". Incinerators typically have a primary burner in the main chamber and a secondary burner/afterburner in the flue stack.

Emissions

Natural gas fired crematories and incinerators that combust human remains, animal remains, refuse, agricultural products, or medical waste are sources of carbon monoxide (CO), nitrogen oxides (NOx), particulate matter (PM), volatile organic compounds (VOCs), sulfur oxides (SOx) and trace toxic substances. Emissions of trace toxic substances may include hydrogen chloride, formaldehyde, benzene, toluene, mercury, hexavalent chromium, PAH's, and other organic gases or heavy metals. Emissions from these processes are highly dependent upon equipment type, control devices, operating conditions, fuel type, process time, charge material composition and operator experience.

Emissions Reporting

The facility is not required to report to MAERS.

Compliance History

The facility was last inspected in January 2020 and was found to be in compliance with all applicable air quality rules and federal regulations at that time.

Regulatory Analysis

The facility is a true minor source and operates under PTI No. 392-95A.

Inspection

On October 25, 2022, AQD Staff (Lauren Luce) conducted a targeted inspection on A&K Crematory in Escanaba, MI. AQD Staff arrived at the facility and met with Don Cole, Operator. It was explained that the purpose of the inspection was to ensure compliance with PTI No. 392-95A and all other state air pollution control rules and federal regulations. Operations, on-site equipment, and records were discussed, and a walkthrough of the process and equipment was provided.

Both cremation units were in operation at the time of the inspection. There were no visible emissions from either stack. Both units only burn human pathological waste and associated materials. The facility is operating both incinerator units in compliance with conditions listed in Appendix A of PTI No. 392-95A.

EUIE43-PPII

At the time of the inspection, temperature in the unit was 1850 degrees Fahrenheit (SC III.1). All charge is weighed prior to being incinerated and a scale is on-site. Charge weight in the unit during the inspection was below 200lbs. The stack height was at least 21 feet as verified by rangefinder (SC VIII.1).

EUIE43-SPP

At the time of the inspection, temperature in the unit was 1758 degrees Fahrenheit (SC III.1). All charge is weighed prior to being incinerated and scale is on-site. Charge in the unit was below 300lbs. (SC II.2, IV.3). The incinerator is serviced on a quarterly basis and records are maintained on site (SC III.2, SC VI.6). The stack height was at least 17 feet as verified by rangefinder (SC VIII.1). The unit is equipped with a continuous temperature monitor and all records on time and weight are maintained on site (SC VI.2, 3, 4, 5). Records were requested for the date of 10/24/22. These records show compliance with recordkeeping requirements.

Compliance

Based on this inspection, it appears A&K Crematory is in compliance with PTI No. 392-95A and all other state air pollution control rules and federal regulations. It was conveyed to the facility that no violations were observed during the on-site inspection.



Image 1: EUIE43-SPP Temperature



Image 2: Stacks

NAME *Sam Sam*

DATE 11/2/22

SUPERVISOR *Michael Kaplan*