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

N755226544

FACILITY: GENESEE CREMATION CENTER INC		SRN / ID: N7552
LOCATION: 10510 N HOLLY RD, FENTON		DISTRICT: Lansing
CITY: FENTON		COUNTY: GENESEE
CONTACT: Dustin Rice		ACTIVITY DATE: 08/19/2014
STAFF: Brad Myott	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Determine compliance with PTI 301-05 and PTI 134-09.		
RESOLVED COMPLAINTS:		

Facility Contacts: Dustin Rice, Timothy Rice

Genesee Cremation is located in Grand Blanc on Holly Road in a light industrial and residential I area. The facility consists of two cremation ovens identified below. The ovens are located in a separate but attached part of the existing building. The building that houses the two ovens is very clean and contains a large refrigeration unit in one corner and trolley for moving bodies.

Emission Unit ID	Emission Unit Description (Process Equipment & Control Devices)	Installation Date / Modification Date	Permit
EUCREMATORY	Mathews Cremation Division Power Pak II (IE43-PPII) Fuel Type: Natural Gas Maximum Charge: 750 Pounds Burn Rate: 150 Pounds/Hour Charge Type: Human Remains	2006	301-05
EUCREMATORY2	Mathews Cremation Division Power Pak II (IE43-PPII) Fuel Type: Natural Gas Maximum Charge: 750 Pounds Burn Rate: 150 Pounds/Hour Charge Type: Human Remains	June 30, 2009	134-09

I conducted an unannounced inspection of Genesee Cremation on 8/19/14 at approximately 11:00 a.m. There were no odors or opacity evident upon arrival. Skies were cloudy and ambient temperatures were in the low 70's.

I met with Mr. Dustin Rice, explained the reason for my visit and provided him with a copy of the DEQ Environmental Inspections brochure. We then proceeded to the cremation area. They receive human remains in cardboard containers. Occasionally human remains are cremated in a casket but most of the time the cardboard containers are used. The corpses may be stored in the refrigeration unit or immediately placed in the oven if it has been preheated. Both cremation units were operating at the time and at least 2 more bodies were waiting to be cremated.

The two natural gas cremation ovens are identical units. The units are heated to approximately 1450 degrees F prior to beginning the cremation process, and then ramped up to about 1675 degrees during the burn. The oven is typically operated for approximately 2.5 hrs. The oven temperature throughout the cremation is maintained at approximately 1675 degrees F. Larger remains typically take longer to complete and burn a little hotter. Once the cremation is complete the ashes are collected from the oven and sieved to remove large particles. Large particles consist of metal parts such as fake joints pacemakers, and some of the larger bone joints. The bones are crushed and added to the ashes. The remains are then placed in a small plastic urn, boxed and collected by the funeral home.

Dustin explained to me how the opacity from the system is controlled. There is an opacity light beam censor on the stack that is set at 15% opacity. If the light beam censor is tripped the dampers are adjusted and the burn air is recycled through the afterburner for re-combustion. Dustin said that the units are inspected once a year by the manufacturer. A thorough check of the equipment is performed. Copies of these inspections are maintained and I reviewed the most recent ones. Dustin also performs any necessary maintenance on the equipment as well as quarterly maintenance per manufacturer's specs.

During the inspection I viewed the stacks of both units at various times during the cremation process, including start up, and cool down. I did not witness any visible emissions from the stacks, only heat waves nor did I detect any odors. I also checked the temperature during the cremation cycle and it was consistently above the 1600 F requirement in the permit. I also viewed the temperature charts that are recorded by each unit. I did not see any temperature drops below the 1600 degrees F from previous burns. The weight of each cremation is recorded by staff on the temperature chart.

Dustin indicated that they typically cremate between 2-6 bodies per day and about 500 in each unit per year. The only usage restriction on the units is a 750 lb/charge limit. From viewing the records it appeared that most of the cremations were around 150-200 lbs. Genesee Cremation Center appears to be in compliance with all requirements of PTI Nos. 301-05 and 134-09. The facility is well maintained and operated. No further action is required.

NAME  DATE 8/22/14 SUPERVISOR 