

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

P082167133

FACILITY: University of Michigan		SRN / ID: P0821
LOCATION: 7500 Challis Road, BRIGHTON		DISTRICT: Lansing
CITY: BRIGHTON		COUNTY: LIVINGSTON
CONTACT:		ACTIVITY DATE: 04/14/2023
STAFF: David Rauch	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: An unannounced routine inspection of the facility was conducted to ensure facility was in compliance with PTI 86-17.		
RESOLVED COMPLAINTS:		

On April 14, 2023, the State of Michigan's Environment Great Lakes and Energy (EGLE) Air Quality Division (AQD) performed a routine inspection of University of Michigan. This facility is located at 7500 Challis Rd. in Brighton, MI.

The Environmental Contact:

Brandi Campbell, EHS Sr. Specialist, Phone: 734-647-9017 Email: campbelb@umich.edu

Robert Clarkson, Lead Facility Engineer, Phone: 248-880-6485 Email: rob.clarkson@cbre.com

Facility Description:

This facility is a specialty hospital with a range of services from respiratory specialty to physical therapy. The facility is a branch of the University of Michigan Hospitals. The facility has an emergency generator that is permitted, and all other equipment is exempt from a permit.

Regulatory Overview:

This facility is classified as a minor source due to the lack of Potential to Emit and actual emissions. This facility does not have the potential to emit over 10 tons of a single Hazardous Air Pollutant (HAP) or a combined 25 tons of all HAPS. Facilities that do meet these emissions are considered Major sources of HAPs and are subject to renewable operating permits.

Emission Units:

Equipment	Location	Exemption	Vented	Chemicals	Controls	Compliance
Boilers	Maintenance Room	282(2)(b)(i)	Internal	Natural Gas	NA	Yes
Steam Boiler	Steam Boiler Room	282(2)(b)(i)	Internal	Natural Gas	NA	
Emergency Generator	Outside near loading Dock	PTI 86-17	External	Diesel Fuel	Limited Use	Yes

Fire Suppression Engine	Outdoor Engine room	NA	Internal	N/A Electric	Electric	
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Facility History:

This facility had not been inspected by AQD with the current permit. Facility has been University of Michigan Specialty Care since the permit was issued, no changes have been made.

Inspection:

Arrived at the facility at 9:00 am and walked through the front doors of the facility to go to the patient help desk. Asked facility staff to contact the EHS and waited 30 mins for a staff member to meet me and take me to the correct section of the facility. I was taken to the lower level near the maintenance area where I was introduced to Robert Clarkson the lead Facility Engineer. Robert did state he would need to reach out to the person in charge of the emergency generator who is Brandi Campbell. Brandi asks that all questions and future inspections be directed towards her and that all records can be sent to EGLE from her. Brandi was not on site for the inspection, so Robert was the staff member giving me the tour of the facility and showing all the different emission units to me. The facility was also asked if they use ethyl oxide as a cleaner and they stated they did not sterilize with ethyl oxide.

Brian and I began the inspection of the facility in the boiler room, and I observed the 7 boilers for hot water for the facility. All 7 boilers have a BTU input of 2 million and are exempt under Rule 282(2). The boilers are all listed as serial numbers between 1725106511514-11520. All records are maintained for these units and kept with the unit. The next area we went to was the steam boilers which are used to create steam for sterilizing equipment in the facility. Boiler 1 serial number is 160210080-10506 and Boiler 2 serial number is 160210080-10507. The BTU input for each boiler is 3.2 million and is exempt under Rule 282(2). All boilers were clean and were operating properly.

The next portion of the inspection was to observe the permitted equipment. The Emergency Generator is located outside of the building near the loading dock. The generator is in a small building structure to keep the unit out of weather conditions. When Robert opened the doors to show the generator the unit was very clean and well maintained. The unit serial number is X17D146707 and goes through maintenance for load abilities once a year. The generator is also used each month for general maintenance each month. The unit runs on diesel fuel and all oil is brought in from Corrigan Oil, records from Corrigan Oil are maintained by University of Michigan staff, fuel type is extra low sulfur diesel. All records were accurate and properly held.

The final portion of the inspection was conducted in the fire suppression room. This room has a large electric water suppression system used for fire prevention in the building. This unit is maintained and monitored by facility staff but does not produce emissions.

Fee Status:

This facility is not subject to MAERS Fees due to them not meeting the Fee Category of F as a minor source.

Location:

This facility is located South of I-96 and West on Challis Rd. The facility entrance is located on Karl Greimel Dr. South of the facility are two schools and Eberspaecher manufacturing facility. To the East are homes and to the West is a courthouse and North is a hotel and retirement community. The overall area has a variety of businesses and a few residential homes.

Facility Record Keeping:

Date	Total Hours Run	Run Time	Rolling 12-Mo Avg.	RICE Hours Purpose
January-21	109.1	2.4	32.2	Maintenance
February-21	111.8	2.7	32.7	Maintenance
March-21	114.1	2.3	32.4	Maintenance
April-21	116.9	2.8	32.4	Maintenance/Testing
May-21	124.0	7.1	35.7	Maintenance (load bank)
June-21	126.3	2.3	35.7	Maintenance
July-21	129.9	3.6	36.5	Maintenance
August-21	132.4	2.5	36.2	Maintenance
September-21	135.1	2.7	36.4	Maintenance

October-21	138.9	3.8	37.3	Maintenance
November-21	141.8	2.9	37.9	Maintenance
December-21	143.9	2.1	37.2	Maintenance
January-22	146.9	3.0	37.8	Maintenance
February-22	149.2	2.3	37.4	Maintenance
March-22	152.2	3.0	38.1	Maintenance
April-22	154.6	2.4	37.7	Maintenance
May-22	158.4	3.8	34.4	Annual Load Bank Test
June-22	161.5	3.1	35.2	Maintenance
July-22	164.4	2.9	34.5	Maintenance
August-22	166.8	2.4	34.4	Maintenance
September-22	170.4	3.6	35.3	Maintenance
October-22	172.9	2.5	34.0	Maintenance
November-22	175.2	2.3	33.4	Maintenance
December-22	178.0	2.8	34.1	Maintenance
January-23	180.2	2.2	33.3	Maintenance
February-23	182.4	2.2	33.2	Maintenance
March-23	185.7	3.3	33.5	Maintenance

Conclusions:

The facility was incredibly organized and clean. The staff was aware of all operations and what was needed for the inspection. Records were well kept, and the facility was in compliance with the requirements of the permit 86-17. All equipment was observed operating correctly and was in good condition. The facility asked for contact with them prior to inspection and that AQD call Brandi Campbell so that proper staff can be on site for inspections.

NAME David RauchDATE 05/23/2023SUPERVISOR RB