

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

U52210018158064

FACILITY: UP Health System - Marquette		SRN / ID: U522100181
LOCATION: 850 West Baraga Avenue, Marquette		DISTRICT: Marquette
CITY: Marquette		COUNTY: MARQUETTE
CONTACT: Cheryl Bollero-Oberstar , Director of Plant Operations		ACTIVITY DATE: 05/10/2021
STAFF: Sydney Hewson	COMPLIANCE STATUS: Non Compliance	SOURCE CLASS:
SUBJECT: Onsite Inspection to verify compliance with state and federal air quality regulations		
RESOLVED COMPLAINTS:		

On May 10, 2020 I (Sydney Hewson) performed an onsite inspection at UP Health Systems-Marquette located at 850 W Baraga Avenue, Marquette MI. While onsite I met with Cheryl Bollero-Oberstar, Director Plant Operations at UP Health Systems.

The hospital is 535,000 square feet and employs 2,000 people. When the facility was built in 2017-2018 they installed three natural gas/fuel oil boilers and two diesel emergency engines (No 2 Fuel oil). They did not apply for a permit prior to beginning this project. The boilers are each rated at 600 HP/25,200,000 BTU/Hr on oil or gas. They primarily operate on natural gas. These engines are not able to use Permit to Install exemption Rule 282 (b)(i) because the PTE emissions of the combined project exceed the significance levels under rule 119 for NOx and CO.

The boilers each have their own stack and all operate 24/7. They are attached to a deaerator surge tank for H2O Treatment. The generators run weekly for 10 minutes and monthly for 30 minutes for readiness testing. Engine 1 had run a total of 157.6 hours at the time of my inspection, Engine 2 had run 152.6 ours at the time of my inspection.

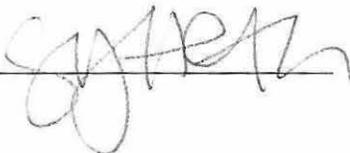
The Emergency Engines are Catepillar model 3512C, they are compression ignition emergency generators and were installed after July, 11 2005 and manufactured after April 1, 2006, there fore they are subject to New Source Performance Standard (NSPS) 40 CFR Part 60 Subpart IIII. This engine is subject to the following Emission Limits: NOx: 14.4 g/KW-hr (test speed < 130 rpm), 44.0 x N-0.23 (test speed > 130 and < 2000 rpm), 7.7 g/KW-hr (test speed > 2000 rpm)

PM: Emission limit = 0.40 g/KW-hr, Testing must be performed in accordance with 40 CFR 60.4213 as the engines have a displacement of greater than 30 liters/cylinder (50 liters).

The three natural gas boiler do not appear to be subject to 40 CFR Part 63 Subpart JJJJJJ, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources because that are considered gas-fired boilers under rule 40 CFR 63.11237.

At the time of my inspection it appeared UP Health Systems-Marquette was not in compliance with all state and federal air quality regulations. The facility needed a permit to install to commence construction and operate the boilers and generators, (Rule 336.1201). A VN was send May 24, 2021.

NAME



DATE

5/24/21

SUPERVISOR

