

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

D539443427

FACILITY: WAKEFIELD TOWNSHIP SCHOOLS		SRN / ID: D5394
LOCATION: 715 PUTNAM ST, WAKEFIELD		DISTRICT: Upper Peninsula
CITY: WAKEFIELD		COUNTY: GOGEBIC
CONTACT: Paul Jacobson , Maintenance Supervisor		ACTIVITY DATE: 01/12/2018
STAFF: Shamim Ahammod	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Conducted a scheduled inspection.		
RESOLVED COMPLAINTS:		

**FACILITY:** Wakefield Township Schools (SRN/ID: D5394)  
**INSPECTION DATE:** January 12, 2018  
**MDEQ-AQD Staff:** Shamim Ahammod, Environmental Engineer  
**FACILITY REPRESENTATIVE:** Paul Jacobson, Maintenance Supervisor

**SOURCE LOCATION:**

The facility is located at 715 Putnam Street, Wakefield, Michigan 49968. The wood-fired boiler is located at near the main entrance gate of the school.

**SOURCE DESCRIPTION:**

In 1987, a wood-fired boiler was installed under Permit to Install (PTI) #666-87 to provide steam to heat the Wakefield Township Schools.

**INSPECTION:**

On January 12, 2018, I (Shamim Ahammod) conducted an unannounced scheduled inspection of the Wakefield Township Schools. I arrived at the facility in the morning and met with Paul Jacobson, Maintenance Supervisor. I told him the purpose of the inspection was to conduct a scheduled inspection of the facility, and to determine the company's compliance with their issued PTI No: 666-87. At the beginning of our meeting, we discussed issued permit, and then we went on a brief walk through the plant to get an idea of the overall operations at the plant.

**REGULATORY ANALYSIS:****Wood-fired boiler:**

During the inspection, the wood-fired boiler was not in operation. Mr. Jacobson could not recall the last date the wood-fired boiler operated but assumed it has not been used since the natural Gas-fired boilers were installed, on May 28, 2003. The wood fired-boiler was probably last operated in April 2003.

Paul Jacobson has requested me to void the permit because they are not planning to use the wood-fired boiler anymore. He has removed the screw style feeder to the boiler. I have sent a note to the Permit Section to void Permit to Install No. 666-87.

**Exempt Sources: Natural Gas-fired Boilers**

Presently, the school operates two natural gas-fired boilers rated at 22 Gallons per Hour (GPH) maximum and 13.2 GPH minimum. The boilers are set approximately 1/3, which would be 16 GPH. Using conversion chart, 16 GPH would be about 2,000,000 BTU/hr.

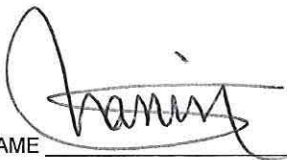
According to Rule R 336.1282(2)(b)(i), these boilers are exempt from the permit to install (PTI) requirements in Rule R 336.1201(1) because the sweet natural gas-fired boilers have a rated heat input capacity of not more than 50,000,000 BTU/hr.

Natural gas-fired boilers are set to pressure at 4.5 psi and steam temperature at 226 Fahrenheit during daytime operational hours (5:30 am-2:30 pm) and set back to pressure at 2.5 psi and temperature at 220 degrees during non-operational hours (nights, weekends and holidays). The stack height of the chimney is approximately 70 feet above ground and 4-6 feet in diameter.

Operational hours of the exempt sweet natural gas-fired boilers are as follows:

Boiler Number	Operational Hours since installation	Years Installed	Average Hours/Year	Avg. Hr/Month* Based on 7 months Heating season
1	23451	14	1675	239
2	28603	14	2043	292

Via onsite inspection, review of records, and discussion with staff, the facility appeared to be in compliance with the conditions of issued permit no. 666-87.

NAME 

DATE 2/27/2018

SUPERVISOR 