

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

N593070577

FACILITY: DELTA COLLEGE		SRN / ID: N5930
LOCATION: 1961 Delta Road, FRANKENLUST		DISTRICT: Bay City
CITY: FRANKENLUST		COUNTY: BAY
CONTACT: Steven Gregory , Director of facilities		ACTIVITY DATE: 01/17/2024
STAFF: Gina McCann	COMPLIANCE STATUS: Compliance	SOURCE CLASS: SM OPT OUT
SUBJECT: PTI 252-96A		
RESOLVED COMPLAINTS:		

I (glm) conducted an announced inspection at the Delta College powerhouse facility. I was accompanied by Mr. Thomas MacDonald, Facility Engineer and Mr. Steven Gregory, Director of Facilities Management.

The facility was issued PTI #252-96A in 2002 for 3 boilers that are capable of burning natural gas or oil. The facility is subject to 40 CFR Part 60 Subparts A and Dc (New Source Performance Standards (NSPS) for Small Industrial-Commercial-Institutional Steam Generating Units).

We reviewed the facility's air permit PTI #252-96A and viewed the boiler room and associated operations, metering and records. At the time of the inspection the facility was in compliance with PTI 252-96A.

The Delta College powerhouse installed 3 Johnston high pressure steam boilers in August 1996. The main use is steam generation for heating and hot water at the college. Natural gas is the primary fuel for the boilers and #2 fuel oil can be used as an alternate fuel source. However, the facility has never received a fuel oil delivery and currently does not have fuel oil on site. The facility also has a cogeneration boiler that has not been used for several years and is exempt to Rule 201 permitting per Rule 282 (b). The facility normally operates one boiler at a time. One of the larger boilers are used during peak demand and the smaller boiler used during lower demand time. Use of each larger boiler is alternated unless maintenance is required. The majority of PTI #252-96A emission limits and other special conditions apply during periods when fuel oil is burned.

FINDINGS

PTI 252-96A: Compliant

The facility has two 20.9 MMBtu/hr and one 10.5 MMBtu/hr boilers. The PTE calculated for the PTI was based on emissions from burning fuel oil. Natural gas PTE emissions were not considered significant. The PTE for the three boilers was 114.5 TPY SO₂, 32.0 TPY NO_x, and 8.2 TPY CO. The PTI contains an emission limit of 28.0 TPY for SO₂. The actual emissions reported in the 2022 MAERS were 0.019 lbs SO₂, 3.12 lbs NO_x, and 2.61 lbs CO w/a natural gas throughput of 26.75 MMBtu. No fuel oil was burned.

While burning fuel oil, the monitoring and recording of sulfur dioxide emissions, fuel oil use, and operating information, is required to comply with NSPS Part 60 Subpart Dc. The facility has never accepted a fuel oil delivery.

FGBOILERS Special Condition 1.5, 1.6, and NSPS subpart Dc 60.48c (4) require the facility to record the amount of fuel combusted each month. Gas usage for the powerhouse is metered by Consumers Energy. The three boilers use over 90% of the total natural gas delivered to the powerhouse. The facility also has read outs and records for each boiler. For reported throughput the facility uses the site gas total minus the non-boiler gas usage. We reviewed daily gas usage records.

We viewed the meters and other monitoring devices for each boiler in the boiler room. Generally, the facility runs boiler #1 in the summer and #2 and #3 in the winter.

During the inspection I asked if the facility had emergency generators and staff provided the list in the table below. It appears these meet permit exemption R285(2)(g), internal combustion engines that have less than 10 MMBtu/hr, and do not require a permit. I did not determine compliance with applicable federal regulations.

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Installation Date	Emergency Engine Model	kW	Btu/hr
2015	Cummins Model 20GGDB	20	68,280.0
2012	Kohler Model 200REZXB	200	682,800.0
2015	Cummins Modle C40N5GG02	40	136,560.0
2013	Kohler Model 125REZGC	125	426,750.0
2012	Kohler Model 350REZXB	355	1,211,970.0
2016	Kohler Model R200REZXB	200	682,800.0

At the time of the inspection the facility was in compliance with PTI 252-96A and applicable state rules.

NAME *Dina J. McFadden*

DATE 2-5-2024

SUPERVISOR *Chris Stone*