

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

B728762262

FACILITY: Sturgis Municipal Power Plant		SRN / ID: B7287
LOCATION: 505 West Chicago Rd., STURGIS		DISTRICT: Kalamazoo
CITY: STURGIS		COUNTY: SAINT JOSEPH
CONTACT:		ACTIVITY DATE: 03/23/2022
STAFF: Chance Collins	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MAJOR
SUBJECT: Scheduled Inspection for FCE		
RESOLVED COMPLAINTS:		

On March 23, 2022, AQD staff traveled to St. Joseph County to perform an inspection of the Sturgis Municipal Power Plant. The purpose of this inspection was to determine the facility's compliance with MI-ROP-B7287-2019 and applicable state and federal air pollution control regulations 40 CFR Part 63 Subpart ZZZZ.

Staff arrived on-site at 11:00 a.m. to rainy conditions with a temperature of 49°F, and a ESE wind of 6 mph. There were no noticeable odors or visible emissions upon arrival.

AQD staff met with Keith Skaggs who answered all questions and escorted staff around the site. The facility is a municipal electric power generation plant. The following discusses the results of the on-site inspection and review of records:

EU-ENG-6

Dual fuel engine generator No.6 fires No. 2 fuel oil and natural gas. Nameplate capacity is 8,295 BHP engine with a 6,000 KW generator. The engine uses non-contact cooling water. A diesel oxidation catalyst was installed to control CO as a result of RICE NESHAP regulations.

The engine is run minimum once per month for two hours for maintenance purposes, and up to 150 hours per year. During these monthly tests the engine is run on diesel for 45 minutes then switched to 95% gas and 5% diesel.

A stack test for CO was performed on 5/30/2019. Three one-hour test runs were completed. The facility was in compliance with the emission limits.

The facility collects and sends fuel oil samples to Paragon Labs. Most recent samples were taken on 08/31/2021. The results of these samples were received 09/28/2021. The sulfur content of the samples taken ranged at measurements between 7.1 ppm (0.00071%) and 9.0 ppm (0.0009%).

The facility is required to maintain records of the amount of electricity produced by EU-ENG-6, in KW-hr, on a monthly and 12-month rolling time period basis. These records are being kept and were acceptable.

The facility is required to monitor and record the natural gas consumption rate, based on a monthly and 12-month rolling time period basis. These records are being kept and were acceptable.

The facility is required to monitor and record the No. 2 fuel oil consumption rate for EU-ENG-6 on a monthly and 12-month rolling time period basis. These records are being kept and were acceptable.

Annual/Semiannual Compliance reports were received in a timely manner and are evaluated upon receipt.


EU-OIL-TANK

30,000 gallon above ground tank for storing No. 2 fuel oil.

The facility is required to keep accessible records showing the dimensions and capacity of EU-OIL-TANK. These records are being kept and were acceptable.

FG-COLDCLEANERS

There is one degreaser at the facility. The facility shall not use cleaning solvents containing more than 5% by weight of halogenated compounds. The facility only uses mineral spirits in the degreaser. At the time of the inspection, the lid of the degreaser was closed and the rules were posted. The degreaser is not heated and was installed in 2003.

NAME  _____

DATE 3/24/22

SUPERVISOR RIL 3/24/22