

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

B728733660

FACILITY: Sturgis Municipal Power Plant		SRN / ID: B7287
LOCATION: 505 West Chicago Rd., STURGIS		DISTRICT: Kalamazoo
CITY: STURGIS		COUNTY: SAINT JOSEPH
CONTACT: John J. Griffith, Electric Department Superintendent		ACTIVITY DATE: 03/10/2016
STAFF: Dennis Dunlap	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MAJOR
SUBJECT: Scheduled inspection.		
RESOLVED COMPLAINTS:		

This was not an announced inspection. Russ Melin is the contact person. The inspection brochure was handed out.

A load of fuel oil was received on 10/27/15. Sturgis did a test and it came back as 12.6 ppm % sulfur at 19,663 btu/lb. (0.00126 %). This is in compliance.

The facility has been doing quarterly visible emission surveys. The requirement to do these surveys was not found. The facility may not need to do these surveys.

EU-ENG-6 was last run on 2/26/16. The catalyst inlet temperature (635 degrees F) and the differential pressure drop (2.4-3.4) were recorded during the run. The inlet temp. was within the proper range (450-1350 degrees F). The diff. pressure is not to vary more than 2 inches from that measured during the last stack test. There is an alarm for the temperature and diff. pressure.

The last stack test was done on Sept. 17, 2013. This tested CO destruction efficiency by monitoring the inlet and outlet. Three runs were done on natural gas and three runs were done on oil. When operating on natural gas the fuel mixture is normally 95% gas and 5% oil. During the run on oil the average differential pressure across the catalyst was 3.1; on gas it was 2.6. The average inlet temp. was 692 degrees.

They keep monthly records of kwh, fuel oil use, and natural gas use. They also calculate 12-month rolling averages for these parameters. They are well below the 13.1 million KW-hr per year limit.

They have a site monitoring plan for the engine as well as a maintenance log.

The last stack was done on 9/17/13. For 40 CFR Part 60 Subpart ZZZZ a stack test for CO is needed every 8,760 hours of operation or three years. A stack test is due this year. The facility submits semi-annual compliance reports for ZZZZ. The ROP also requires a stack test for NOx during the term of the permit which expires on 12/16/19.

The cold cleaner lid was closed.

An oil sample was taken. It was sent to Hazen labs in Colorado to test for % sulfur and BTU value.

NAME

Dennis Dunlap

DATE

3/15/16

SUPERVISOR

MD 3/15/2016