

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

B728725978

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: 07/16/2014
STAFF: Dennis Dunlap	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MAJOR
SUBJECT: Scheduled inspection.		
RESOLVED COMPLAINTS:		

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

Engine 6 is the only existing engine. This is a dual fuel generator that runs on fuel oil or a 95% natural gas 5% fuel oil mix. The last fuel oil delivery was on Oct. 16, 2013 and was 7,200 gallons. Sturgis tested fuel oil on 10/22/13. The result for sulfur was 8.1 ppm (0.0008%). Based on 40 CFR Part 63 Subpart ZZZZ, they are not required to meet 0.0015% sulfur because the cylinder displacement is over 30 liters per cylinder. They are in compliance with this. An oil sample was taken and sent to Fibertec Labs. This unit was tested for CO destruction efficiency on 9/17/13 for ZZZZ. It will need to be re-tested in 3 years or 8,760 hours. Also during the term of this new ROP a NOx test will need to be done. The unit is run each month for about 2 hours. The engine currently does not have a contract to operate. It did run one day last summer. In March of 2013 a new oxidation catalyst was installed. The pressure drop range required for ZZZZ is based on this new catalyst. Also in 2013 a new cooling tower was installed. When the engine is running parameters are recorded such as pressure drop and catalyst inlet temp. A database was viewed on the computer when the engine was last running. The pressure drop is set at 3.1. The catalyst inlet temp. was 618.6 degrees when the engine was running. This is in compliance with ZZZZ which requires a temp. range of 450 to 1350. Records were viewed of the last 12 months for kilowatt hours, fuel oil used, and natural gas used including 12 month rolling averages.

They have a log book that records maintenance activities. They do a weekly inspection of the HAPGUARD system for status (last entry 7/3/14). An Engineers log sheet is used to record any problems while the engine is operating. The maintenance plan for the oxidation catalyst may be re-written.

NAME Dennis DunlapDATE 7/17/14SUPERVISOR MD 7/17/2014