

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

P051463468

FACILITY: Consumers Energy - Grand Rapids Service Center		SRN / ID: P0514
LOCATION: 4000 CLAY AVENUE SW, GRAND RAPIDS		DISTRICT: Grand Rapids
CITY: GRAND RAPIDS		COUNTY: KENT
CONTACT: Joy Hwang , Environmental Engineer		ACTIVITY DATE: 06/28/2022
STAFF: April Lazzaro	COMPLIANCE STATUS: Compliance	SOURCE CLASS: SM OPT OUT
SUBJECT: Unannounced, scheduled inspection.		
RESOLVED COMPLAINTS:		

Staff, April Lazzaro arrived at the facility to conduct an unannounced, scheduled inspection and met with Ron Chick, Building Maintenance. Upon arrival to the facility, no odors or visible emissions were observed.

FACILITY DESCRIPTION

This is the Consumers Energy Customer Service Center facility that operates one 2000 KW diesel fired emergency generator manufactured in 1999. The reciprocating internal combustion engine (RICE) operates pursuant to Opt-out Permit to Install No. 50-14A. The permit contains limitations on hours of operation and contains NO_x and CO limits to provide synthetic minor status. This RICE is subject to the National Emissions Standards for Hazardous Air Pollutants in 40 CFR Part 63 Subpart ZZZZ. Due to the age of this engine, and the determination that moving it from one geographical location to another does not constitute reconstruction, it is not subject to the New Source Performance Standard located in 40 CFR Part 60 Subpart IIII. The Air Quality Division has not taken delegation of 40 CFR Subpart ZZZZ area sources and as such compliance was not evaluated as part of this inspection.

COMPLIANCE EVALUATION

The permit limits NO_x to 12 tons per 12-month rolling time period and CO to 2 tons per 12-month rolling time period as determined at the end of each month. The emission limits are assured by the utilization of low sulfur diesel fuel and documentation from the manufacturer that the unit meets the emission limitations. Reported 12-month rolling emissions of NO_x are 0.023 tons for the time period ending in May 2022. Reported 12-month rolling emissions of CO are 0.049 tons for the time period ending in May 2022.

Hours of operation are limited to 500 hours per year, and the reported hours of operation for 2021 was 21.0 hours. It operates on an emergency basis only, and no use for peak shaving has occurred. Mr. Chick indicated that the unit runs very clean, and no smoke is observed during operation. The generator was not operating at the time of the inspection.

The permit contains limits on sulfur content limitations of 15 ppm. All diesel fuel in the United States is required by the EPA to be 15 ppm sulfur or less, and the facility receives one delivery of approximately 600 gallons of fuel each year.

Mr. Chick showed me the log that is maintained for the unit, and the maintenance procedures were discussed. The facility utilizes a contractor to perform necessary maintenance. The hours log was being maintained and the non-resettable hours meter was intact.

The nameplate kW rating of this RICE reads: 2179 kW at 1800 rpm. It is a Caterpillar Generator Set with a Cummins engine. Model # 2000DQKC-96, Serial No. D990895107.

At this time, the AQD is not requiring stack testing for this emergency RICE.

The recordkeeping required by the permit was provided by Joy Hwang at Consumers in a timely fashion. It was found to meet the permit requirements. During the 2017 compliance inspection, information from the manufacturer, including the emission factors that are used to demonstrate compliance with the emission limits was received and filed.

COMPLIANCE SUMMARY

The Consumers Energy Customer Service Center was in compliance at the time of the inspection.

NAME April Longman

DATE 7/16/22

SUPERVISOR [Signature]