

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

B655359549

FACILITY: Upper Peninsula Power Company - Portage		SRN / ID: B6553
LOCATION: 16626 Academy / Cemetery Road, SOUTH RANGE		DISTRICT: Marquette
CITY: SOUTH RANGE		COUNTY: HOUGHTON
CONTACT:		ACTIVITY DATE: 08/24/2021
STAFF: Joe Scanlan	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MAJOR
SUBJECT: Unannounced inspection to verify emission unit is still located at the facility. Emission unit is on site, however is no longer operational.		
RESOLVED COMPLAINTS:		

REGULATORY AUTHORITY

Under the Authority of Section 5526 of Part 55 of NREPA, the Department of Environment, Great Lakes, and Energy may upon the presentation of their card, and stating the authority and purpose of the investigation, enter and inspect any property at reasonable times for the purpose of investigating either an actual or suspected source of air pollution or ascertaining compliance or noncompliance with NREPA, Rules promulgated thereunder, and the federal Clean Air Act.

FACILITY DESCRIPTION

Upper Peninsula Power Company (UPPCO) is a regulated utility company that serves 10 counties in the Upper Peninsula. The company's power assets include seven hydroelectric renewable energy facilities and two combustion turbines providing a total generation capacity of 80 MW. The UPPCO Portage Station is one of the two combustion turbines and is considered a "peak" unit, meaning this station is only used during a high demand for electricity.

The Portage station is in a rural area approximately one mile north of South Range. This facility was constructed in 1973 and operates a General Electric PG 5341 Frame 5 gas turbine rated at 22.6 MW (EUGASTURBINE). The turbine has the capability of burning natural gas or No. 2 fuel oil. The turbine is coupled to a 465 hp diesel (compression ignition (CI)) engine (EUZZZZENGINE) used to "black start" the turbine until it reaches 5104 rpm. This enables the gas turbine ignition system to engage and provides torque assistance until the turbine is self-operating at higher speed. The engine and turbine are currently fuel oil fired and the facility also has a 250,000 gallon fuel oil storage tank with an electric heater.

EMISSIONS

The facility has not been operating since late November of 2018—no emissions have been reported to MAERS since then.

REGULATORY ANALYSIS

UPPCO Portage Station is currently subject to the Title V program and holds MI-ROP-B6553-2015. The facility is also subject to 40 CFR Part 63, Subpart ZZZZ for the 465 hp diesel engine. The 250,000 gallon fuel oil storage tank is exempt per Rule 336.1284(d).

COMPLIANCE HISTORY

The facility has not received any violation notices in the past several years and was last inspected while operating in 2017 with no compliance issues. The facility was last inspected in December of 2018 after a catastrophic mechanical failure in the turbine that permanently disabled EUGASTURBINE.

SUMMARY

The company notified AQD district staff in August of 2021 that they have no intention to repair or replace the turbine. Considering this, the company has initiated the process of voiding MI-ROP-B6553-2020. Once the Responsible Official submits a request for the ROP to be voided to the District Supervisor, district staff will complete the ROP void process. Because the facility is permanently shut down no Source-Wide PTI will be required.



Image 1(UPPCo1) : View of UPPCo Portage Station housing EUGASTURBINE on 8_24_21

NAME J. Scuder

DATE 9/10/21

SUPERVISOR ELL