

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

B655340667

FACILITY: UPPCO PORTAGE STATION		SRN / ID: B6553
LOCATION: 16626 Academy / Cemetery Road, SOUTH RANGE		DISTRICT: Upper Peninsula
CITY: SOUTH RANGE		COUNTY: HOUGHTON
CONTACT: JAMES MELCHIORI, SUPERVISOR		ACTIVITY DATE: 07/11/2017
STAFF: Ed Lancaster	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MAJOR
SUBJECT: Scheduled, unannounced inspection.		
RESOLVED COMPLAINTS:		

AQD Lancaster arrived at the facility to find the gates locked and no one present. The generator was not operating at the time of my inspection. Upon returning to my office I contacted Mr. Jarrod Nelson, UPPCO Environmental, and requested production data on the facility.

The Upper Peninsula Power Company - Portage Station is a Title V subject facility. The company submitted a timely renewal application on November 5, 2014. The ROP was issued on June 2, 2015.

The facility operates a General Electric MS-5000 gas turbine peaking unit rated at 22.6 MW (EUGASTURBINE). The turbine has the capability of burning natural gas or No. 2 fuel oil. A 465 hp diesel (compression ignition (CI)) "black start" engine is used to start the turbine. The black-start engine is subject to the RICE MACT (40 CFR Part 63 Subpart ZZZZ). In addition, the facility has a Rule 284(d) exempt 250,000 gallon, fuel oil storage tank with an electric heater.

EUGASTURBINE

There are no emission limits associated with EUGASTURBINE. The No. 2 fuel oil has a sulfur content limit of 0.5% by weight as calculated on the basis of 18,000 BTU per pound.

Laboratory analysis, supplied by Mr. Melchiori (collected on February 19, 2017), showed the fuel oil sulfur content was 163 mg/Kg, or 0.0163%, in compliance with Special Condition (SC) Nos. II.1 and VI.1.

Operation Records for 2017 (Through July), show the turbine only operated for 4.81 hours and consumed 7,855 gallons of fuel oil (SC No. III.1).

EUZZZENGINE

The Black-start compression engine also has no emission limits. The engine is plumbed to the same No. 2 fuel oil storage tank as the gas turbine, therefore, it is in compliance with the sulfur content of 0.5% by weight (SC Nos. II.1 and III.5).

UPPCO choose the oil analysis program and work practice standards to show compliance with the RICE MACT. Mr. Melchiori provided UPPCO's work log showing compliance with SC Nos. III.1, 3, and 4, and VI.1-4, and the fuel oil analysis as required in SC Nos. III.2 and V.1.

UPPCO has been prompt in submitting semi-annual and annual report certifications and the annual air emissions report (SC VII.1-5).

After reviewing UPPCO's records, it appears the Portage Station Facility is in compliance at the time of the inspection.

Ed Lancaster

9/26/17

EdL