

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

P058265847

FACILITY: Wolverine Power Supply Co-op - Alpine Power Plant		SRN / ID: P0582
LOCATION: 7432 M-32 Highway, ELMIRA		DISTRICT: Gaylord
CITY: ELMIRA		COUNTY: OTSEGO
CONTACT:		ACTIVITY DATE: 12/20/2022
STAFF: David Bowman	COMPLIANCE STATUS:	SOURCE CLASS: MAJOR
SUBJECT: Onsite inspection. Plant not operating at time of inspection.		
RESOLVED COMPLAINTS:		

On 20 December 2022 I, David Bowman MI EGLE AQD, conducted a site inspection of P0582 Wolverine Power Supply Cooperative Incorporated Alpine Power Plant, 7432 M-32, Elmira MI, operating under the conditions of MI-ROP-P0582-2019a. The source is located approximately 0.5 miles west of the Camp 10 Rd and M-32 intersection and on the North side of M-32. The plant can be seen from M-32. The site is secured by a tall fence and gate access control. Site is very security conscious and takes access seriously.

There was no VE from any stack. The temp was approx. 26°F with light winds. There was no odors or signs of spills onsite. The site was in process of removing snow upon my arrival. The plant was black at the time of inspection. I met with Jesse Genter, General Manager, Dan Boulter, Alpine Chief Operator, and Zach Ackerman, Environmental Compliance Specialist. Jesse, Zach, and I conducted the plant inspection.

Alpine Power Plant is a “peaker plant” and was not being called upon today to provide energy for the grid. Peaker plants do not run unless there is a requirement for the added energy to be sent to the grid. At the time of inspection, the plant was not operating.

We walked the plant to see the EU and FG listed in the ROP. Starting with EUERMGEN. Access to EUEMERGEN is access controlled by keypad. I verified the non-resettable hour meter (EUEMERGEN IV. 1), a digital display. The hours matched what was reported during records check. The name plate limit of 1500 kW was also verified (EUEMERGEN IV. 2). The room was well maintained, clean, and had no evidence of spills or leaks. I used the Nikon Forestry Pro II to verify an approximate stack height of 14’ above ground and I estimated the diameter at a maximum of 12” discharging vertically with no cap on the stack (EUEMERGEN VIII. 1 Note: there is a typo in the actual ROP listing III. Stack/Vent Restrictions that should read as VIII.) Fuel samples have been sent for testing of the Cetane levels in the last month and results are anticipated to be back in the upcoming month (EUEMERGEN II. 1). The site receives fuel approximately one time per year and when it arrives, they send out a sample for testing.

We started at EUFIREPUMP. This is housed in a building with keypad access required. I verified the non-resettable hour meter (EUFIREPUMP IV. 1), a digital display. The hours matched what was reported during records check. The name plate limit of 347 HP was also verified (EUFIREPUMP IV. 2). The room was well maintained, clean, and had no evidence of spills or leaks. I used the Nikon Forestry Pro II to verify an approximate stack height of 14’ above ground and I estimated the diameter of the stack at 8” at most discharging vertically with no cap on the stack (EUFIREPUMP VIII. 1) Fuel samples have been sent for testing of the Cetane levels in the last month and results are anticipated to be back in the upcoming month (EUEMERGEN II. 1). The

site receives fuel approximately one time per year and when it arrives, they send out a sample for testing.

Jesse confirmed that it is pipeline natural quality gas used by FGCTG (FGCTG II. 1, II. 3, and VI. 6). Records review (MACES report CA P058265820 dated 19 Dec 2022) covered the amount of natural gas usage. We discussed the Low NOx and CO manufacturer installed combustion technologies. They are a combination of internal mechanisms to the turbines, i.e. injectors, in EUCTG1 and EUCTG2 and are also controlled by the computer and are addressed in the MAP Section 3.0 Emission Control Device (FGCTG III. 4) I used the Nikon Forestry Pro II to verify the approximate height of SV-CTG1 and SV-CTG2 at least at 85 feet above ground and I estimated the diameter of the stack at most at 22 feet (264inches) (FGCTG VIII. 1 and VIII. 2).

FGFUELHTR also uses only pipeline quality natural gas (FGFUELHTR III.1) EUFUELHTR1 and EUFUELHTR2 appear to be well maintained. There was no signs of needed repairs or degradation visible. I used the Nikon Forestry Pro II to verify that the stack SV-FUELHTR1 and SV-FUELHTR2 meet the minimum stack of 16 feet above ground and I estimated the diameter of the stack to be at most 10" and both have a rain cap (FGFUELHTR VIII.1 and VIII.2).

Phase II Acid Rain Permit No. MI-AR-59926-2019 conditions were not evaluated due to AQD not having delegated authority over this regulation. We did discuss the testing requirements for compliance and the source is on track for maintaining compliance.

NAME 

DATE 1-10-23

SUPERVISOR 