

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

B183347819

FACILITY: MARQUETTE BOARD OF LIGHT & POWER		SRN / ID: B1833
LOCATION: 400 E HAMPTON, MARQUETTE		DISTRICT: Upper Peninsula
CITY: MARQUETTE		COUNTY: MARQUETTE
CONTACT: THOMAS J SKEWIS , ENVIRONMENTAL COMPLIANCE (3/2018)		ACTIVITY DATE: 02/13/2019
STAFF: Sydney Bruestle	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MAJOR
SUBJECT: Scheduled onsite inspection to verify compliance with MI-ROP-B1833-2013a and all other applicable state and federal air quality regulations		
RESOLVED COMPLAINTS:		

On February 13, 2019 I (Sydney Bruestle) performed an onsite inspection of Marquette Board of Light and Power Shiras Steam Plant located at 400 E Hampton St Marquette, Michigan. While onsite I met with Tom Skewis, Environmental Technician.

Facility Description:

The Shiras Steam Plant is located in the City of Marquette at the Lower Harbor. The plant provided electricity to the City of Marquette and surrounding communities until June 8th 2018, when it was shut down. The City and surrounding areas now get power from the Marquette Energy Center engine plant (P0668). The Shiras plant has three coal fired boilers and associated coal, ash, and lime handling and storage equipment. Currently the facility is not storing or receiving coal, only lime. Boiler #1 is a Riley spreader stoker coal fired boiler built in 1956. It is rated at 150,000 pounds of steam per hour and has a heat input capacity of 198 million BTU per hour. It serves a generator with a nameplate capacity of 12.5 megawatts. Boiler #2 is a Riley-Union spreader stoker coal fired boiler built in 1971. It is rated at 200,000 pounds of steam per hour and has a heat input capacity of 264 million BTU per hour. It serves a generator with a nameplate capacity of 21.158 megawatts. Boilers #1 and #2 share a common stack. Boilers #1 and #2 were upgraded in 1979 with the addition of individual baghouse dust collectors under Air Use Permit #345-78. Boiler #3 is a Combustion Engineering pulverized coal fired boiler built in 1981 under Air Use Permit #65-80. It is rated at 415,000 pounds of steam per hour and has a heat input capacity of 517 million BTU per hour. It serves a generator with a nameplate capacity of 44 megawatts. Boiler #3 is controlled by a lime slurry scrubber for flue gas desulfurization followed by a baghouse dust collector. Boiler #3 was the only boiler operated in 2018. Boiler #1 and #2 are currently inoperable. Boiler #2 was last operated October 27, 2016. Boiler #3 has been shut down indefinitely as of June 8, 2018.

Despite the shut down, the facility is choosing to renew MI-ROP-B1833-2013a. The new ROP is in working draft and should be issued in 2019. Records for Boiler #3 were reviewed during my site visit. The facility continues to send in semi annual and annual compliance certifications. Records of operation for Boiler #1, #2, and #3 (for 2017 and 2018) are attached to the hard file of this report.

At the time of my inspection Marquette Board of Light and power appeared to be in compliance with MI-ROP-B1833-2013a and all other applicable state and federal air quality regulations.

NAME Sydney Bruestle DATE 02/19/18 SUPERVISOR Edd