

DEPARTMENT OF ENVIRONMENTAL QUALITY

AIR QUALITY DIVISION

FCE Summary Report

Facility : Marquette Board of Light and Power	SRN : P0668
Location : 2200 Wright Street	District : Marquette
	County : MARQUETTE
City : MARQUETTE State: MI Zip Code : 49855	Compliance Status : Compliance
Source Class : MAJOR	Staff : Sydney Hewson
FCE Begin Date : 2/1/2019	FCE Completion Date : 12/9/2020
Comments : FCE to verify compliance with MI-ROP-P0668-2019 and all other applicable state and federal air quality regulations	

List of Partial Compliance Evaluations :

Activity Date	Activity Type	Compliance Status	Comments
12/09/2020	Excess Emissions (CEM)	Compliance	R 336.1912 - Excess Emissions Event - Marquette Energy center - EUENGINE02 from 10/16/2020
12/09/2020	On-site Inspection	Compliance	Onsite inspection to verify compliance with MI-ROP-P0668-2019 and all other applicable state and federal air quality regulations
12/07/2020	Off-site Inspection	Compliance	Records Request to verify compliance with MI-ROP-P0668-2019
09/04/2020	ROP Semi 1 Cert	Compliance	Semi-Annual Report Certification from 01/01/2020 to 06/30/2020. NOx limit exceedance due to urea injection failure. addressed in excursion/exceedance form
09/04/2020	CAM Excursions/Exceedances	Compliance	Excursion / Exceedance Summary Report Form (1/1/2020 - 6/30/2020). All NOx emissions exceedances were a result of Urea injection failure, these four events were all less than 1 hour.
02/28/2020	MAERS	Compliance	2019 MAERS - Refer to MAERS for any comments
01/31/2020	ROP Annual Cert	Compliance	Annual Compliance Certification from 10/1/2019 - 12/31/2019 Urea Probe plugged and air in the urea dosing cabinet caused urea to not inject properly, all events were less than 1 hour.

Activity Date	Activity Type	Compliance Status	Comments
01/31/2020	ROP SEMI 2 CERT	Compliance	Semi-Annual Report Certification from 10/1/2019 to 12/31/2019. Urea Probe plugged and air in the urea dosing cabinet caused urea to not inject properly, all events were less than 1 hour.
01/31/2020	CAM Excursions/Exceedances	Compliance	- Excursion / Exceedance Summary Report Form (10/1/19 - 12/31/19). NOx Exceedances as a result of urea not injected properly. 4 events, all less than 45 minutes.
01/03/2020	Malfunction Abatement Plan	Compliance	Preventative Maintenance and Malfunction Abatement Plan (PM MAP) - Updated Stack Test Data from 10/14/2019
10/09/2019	Rule 912	Compliance	R 336.1912 - Excess Emissions Event - Marquette Energy Center - EUENGINE02 (09/29/2019). Facility corrected the issue and reported excess emissions in a timely manner.
09/24/2019	Stack Test	Compliance	Emission Testing of one Dual Fuel -Fired Wartsila 18V50DF Engine (EU-ENGINE01) from 7/23/2019 - 07/25/2019. NOx Limit: 21.0 lb/hr (results: 8.7 lb/hr) Limit: 2.58 g/HP-hr (results: 0.174 g/HP-hr) Filterable PM: Limit: 0.15 g/kW-hr (results: 0.011 g/kW-hr)
09/24/2019	Stack Test	Compliance	Emission Testing of one Dual Fuel -Fired Wartsila 18V50DF Engine (EU-ENGINE02) from July 23, 2019 to July 25, 2019 Natural Gas: NOx Limits: 3.3 lb/hr, 1.0 grams/HP-hr, 82 ppmvd@15% O2 Results: 1.0 lb/hr, 0.020 grams/HP-hr, 1.8 ppmvd@15% O2 CO Limits: 5.0 lb/hr, 2.0 grams/HP-hr, 270 ppmvd@15% O2 Results: 0.2 lb/hr, 0.003 grams/HP-hr, 0.4 ppmvd@15% O2 VOC limits: 16.5 lb/hr, 0.7 grams/HP-hr, 60 ppmvd@15% O2 Results: 1.5 lb/hr, 0.031 grams/HP-hr, 2.9 ppmvd@15% O2 Formaldehyde Limits: 0.648 lb/hr Results: 0.18 lb/hr Fuel Oil Results: NOx Limit: 21 lb/hr, 2.58 g/HP-hr, Results: 8.0 lb/hr, 0.161 g/HP-hr Filterable PM Limits: 0.15 g/kW-hr Results: 0.032 g/kW-hr

Activity Date	Activity Type	Compliance Status	Comments
09/24/2019	Stack Test	Compliance	Emission Testing of one Dual Fuel -Fired Wartsila 18V50DF Engine (EU-ENGINE03) from July 23, 2019 to July 25, 2019 Natural Gas: NOx Limits: 3.3 lb/hr, 1.0 grams/HP-hr, 82 ppmvd@15% O2 Results: 1.6 lb/hr, 0.031 grams/HP-hr, 2.6 ppmvd@15% O2 CO Limits: 5.0 lb/hr, 2.0 grams/HP-hr, 270 ppmvd@15% O2 Results: 0.1 lb/hr, 0.002 grams/HP-hr, 0.3 ppmvd@15% O2 VOC limits: 16.5 lb/hr, 0.7 grams/HP-hr, 60 ppmvd@15% O2 Results: 0.9 lb/hr, 0.017 grams/HP-hr, 1.5 ppmvd@15% O2 Formaldehyde Limits: 0.648 lb/hr Results: 0.19 lb/hr Fuel Oil Results: NOx Limit: 21 lb/hr, 2.58 g/HP-hr, Results: 8.1 lb/hr, 0.164 g/HP-hr Filterable PM Limits: 0.15 g/kW-hr Results: 0.024 g/kW-hr
08/21/2019	ROP Other	Compliance	Acid Rain New Exemption forms for three Wartsila engines
06/11/2019	ROP Other	Compliance	Emission Testing of One Dual Fuel -Fired Wartsila 18V50DF Engine (EU-ENGINE01) (March 19, 2019). The facility met the emission limits for NOx, CO, VOC, Formaldehyde while operating on natural gas. The facility met emission limits for NOx, CO, VOC, and filterable particulate matter (FPM) while operating on light fuel oil.
03/11/2019	MAERS	Compliance	2018 MAERS - refer to MAERS for any comments
02/13/2019	Scheduled Inspection	Compliance	Onsite Inspection to verify compliance with PTI 204-15 and all other applicable state and federal air quality regulations

Name: Sydney

Date: 12/14/20

Supervisor: EDL