

DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

FCE Summary Report

Facility : EMPIRE IRON MINING PARTNERSHIP	SRN : B1827
Location : EMPIRE MINE RD PO BOX 2000	District : Upper Peninsula
	County : MARQUETTE
City : ISHPEMING State: MI Zip Code : 49849	Compliance Status : Compliance
Source Class : MAJOR	Staff : Ed Lancaster
FCE Begin Date : 3/25/2016	FCE Completion Date : 3/24/2017
Comments : Completed inspection and file review.	

List of Partial Compliance Evaluations :

Activity Date	Activity Type	Compliance Status	Comments
03/17/2017	ROP Other	Compliance	FG-BOILERS 6-7; 40CFR Part 63, Subpart DDDDD Tune-Up Conducted Week of 10/3/16-10/7/16
03/17/2017	ROP Annual Cert	Compliance	Annual Compliance Certification from 01/01/2016 to 12/31/2016. Opacity exceedances on EU Furnaces 2, 3 and 4. All exceedances were less than 1% of operating time for each unit. ELL
03/17/2017	ROP SEMI 2 CERT	Compliance	Semi-Annual Report Certification from 7/1/2016 - 12/31/2016 Company reported opacity deviations occurring during start-up/shut down operations. Exceedances occurred for less than 1% of operating time for Furnaces 2, 3, and 4. ELL
03/17/2017	Excess Emissions (CEM)	Compliance	Opacity Meters: EU-UNIT2-FURNACE 54 minutes of EE (0.11% of operating time), CEMS down for 150 minutes-"Other Unknown Causes" (0.30% operating time). EU-UNIT3-FURNACE 60 minutes of EE (0.12% of operating time), CEMS down for 114 minutes-"Other Unknown Causes" (0.23% operating time). EU-UNIT4-FURNACE 12 minutes of EE (0.02% of operating time), CEMS down for 264 minutes-"Other Unknown Causes" (0.53%

Activity Date	Activity Type	Compliance Status	Comments
03/15/2017	Scheduled Inspection	Compliance	Conducted compliance inspection/file review.
03/15/2017	MAERS		2016 MAERS - refer to MAERS for any comments
10/31/2016	ROP Other	Compliance	Empire demonstrated a 36% reduction, from baseline, in NOx emissions during the Ozone Season, mostly by entering an indefinite idle.
08/26/2016	ROP Semi 1 Cert	Compliance	Semi-Annual Report Certification from January 1, 2016 to June 30, 2016. NR Opacity exceedances on EU Furnaces 2, 3 and 4. All exceedances were less than 1% of operating time for each unit. ELL
05/25/2016	MAERS	Compliance	MAERS 2015
03/31/2016	ROP Annual Cert	Compliance	Annual Compliance Certification from 1/1/2015 to 12/31/2015. NR Company reported opacity deviations for Furnaces 2, 3, and 4. ELL
03/31/2016	ROP SEMI 2 CERT	Compliance	Semi-Annual Report Certification from 7/1/2015 to 12/31/2015. NR Company reported three deviations, one each for Furnaces 2, 3 and 4. All were for opacity greater than 20% during SSM conditions. Total operating time for each Furnace was 0.03%, 0.08% and 0.17% respectively. ELL
03/31/2016	Excess Emissions (CEM)	Compliance	EU-FURNACE2: 36 minutes of EE during start-up/shutdown, 0.03% of operating time; and 3,276 minutes (2.98% operation time) of CEMS downtime-Other Known Causes. EU-FURNACE3: 120 minutes of EE during start-up/shutdown, 0.08% of operating time; and 5,148 minutes (3.27% operation time) of CEMS downtime-Other Known Causes. EU-FURNACE4: 162 minutes of EE during start-up/shutdown, 0.17% of operating time; and 3,258 minutes (3.46% operation time) of CEMS downtime-Other Known Causes. ELL

Name:

Ed Lancaster

Date:

3/24/17

Supervisor:

JR
Page 2 of 2