DEPARTMENT OF ENVIRONMENTAL QUALITY

AIR QUALITY DIVISION

FCE Summary Report

Facility :	Michigan Sugar Company - Bay City		SRN :	B1493
Location :	2600 S Euclid Ave		District :	Bay City
		Г	County :	BAY
City: E	BAY CITY State: MI Zip Code : 48706	Complia Status :		Non Compliance
Source Cla	ss : MAJOR	Staff :	Kathy	Brewer
FCE Begin	Date : 6/1/2021	FCE C Date :	Completion	6/1/2023
Comments	: VNs sent for various CEMs non compliance lacks adequate procedures and record keep			•

List of Partial Compliance Evaluations :

Activity Date	Activity Type	Compliance Status	Comments
05/23/2023	Odor Evaluation	Compliance	Odor evaluation in response to odor complaints received between 4/8/2023 and 5/23/2023. Odors observed in area at time of observations were not of duration or intensity to violate R901
04/20/2023	CAM Excursions/Exceedan ces	Compliance	No excursions or exceedances reported
04/20/2023	CAM monitor downtime	Compliance	No excursions or exceedances reported
04/20/2023	ROP Annual Cert	Compliance	Compliant with reporting requirement. No Deviations reported Jan-Jun 2022. Deviations reported related to CEMS. VN sent for CEMS downtime VN sent July 18, 2022. Referral to Enforcement Unit after unsatisfactory/incomplete response received. CEMS downtime continued throughout 2022. VN also included failure to adequately report/have responsible official review report
04/20/2023	ROP SEMI 2 CERT	Compliance	Compliant with reporting requirement. Deviations reported related to CEMS. VN sent for CEMS downtime VN sent July 18, 2022. Referral to Enforcement Unit after unsatisfactory/incomplete response received. CEMS downtime continued throughout 2022

Activity Date	Activity Type	Compliance Status	Comments
04/20/2023	ROP Monthly	Compliance	February 2023 - Anamet SO2 Gas Generation - 12 month rolling total of 1.13 tons.
04/07/2023	Odor Evaluation	Compliance	Odor evaluation in response to odor complaints received between 3/22 and 4/7/2023. Odors observed in area at time of observations were not of duration or intensity to violate R901
03/21/2023	Odor Evaluation	Non Compliance	Odor investigation in response to complaints received between March 1 – 21, 2023. Nuisance odors from rotting beet pieces and inadequate wastewater treatment. VN will be sent 3-30-2023.
02/28/2023	Odor Evaluation	Compliance	Odor investigation in response to complaints received between Jan 1- Feb 28, 2023. No odors observed found to be in violation of R901. FLIR used to video on site anaerobic digester flare.
02/10/2023	On-site Inspection	Non Compliance	MSC BC ROP on site records, monitoring and control device review. VN previously sent (VN#2 Nov 14, 2022) for CEMS noncompliance issues and certification of inaccurate reports is now in escalated enforcement. Overall on site compliance management, tracking, and verification needs improvement.
12/27/2022	ROP Monthly	Compliance	May 2022 - Anamet SO2 Gas Generation - 12 month rolling total of 1.10 tons.
12/27/2022	ROP Monthly	Compliance	June 2022 - Anamet SO2 Gas Generation - 12 month rolling total of 1.13 tons.
12/27/2022	ROP Monthly	Compliance	July 2022 - Anamet SO2 Gas Generation - 12 month rolling total of 1.13 tons.
12/27/2022	ROP Monthly	Compliance	August 2022 - Anamet SO2 Gas Generation - 12 month rolling total of 1.13 tons.
12/27/2022	ROP Monthly	Compliance	September 2022 - Anamet SO2 Gas Generation - 12 month rolling total of 1.15 tons.
12/27/2022	ROP Monthly	Compliance	October 2022 - Anamet SO2 Gas Generation - 12 month rolling total of 1.16 tons.

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12/21/2022	CEMS Test Observation	Compliance	Boiler#6, #7, #8 RATA annual RATA testing. The facility conducted and completed all RATA testing on all 3 boilers. TPU staff Lindsey Wells was also on site to observe. EGLE issued a VN to MSC BC for extensive monitor downtime in two quarters of 2021 and escalated enforcement when CEMS proram monitoring and reporting requirements were not provided .The RATA approval letter informed the facility that CEMS data review would occur during the RATA testing, what data TPU would be reviewing, and if the data was not available the RATA may be designated as qualified data. TPU staff and I spent several hours reviewing the CEMS data acquistion and data handling steps to generate the data used in CEMS reporting and emission calculations. Angel Pichla and Meaghan Martuch of MSC BC provided an overview of the data handling. MSC IT expert Andy joined the conversation to provide some details. The transfer of data changes time periods several ties (unknown at the CEMS, 1/sec avg, 15 sec avg, daily avg using representative 1 minute avg) MSC BC did not have the data requested for review in a format that confimed any conversions and showed all calculations. The main concern thre did not appear to be documentation of
11/16/2022	Telephone Notes	Compliance	documentation of email sent to A. Pichla re: RATA deadline, Open burning, Flume pond solids on lime pile, odors along Saginaw Rd
09/29/2022	ROP Semi 1 Cert	Compliance	Postmarked 9/15/22. No deviations reported (Company should have documented EGLE notification by email and phone re: CEMS compliance and inaccurate reporting. July 18, 2022 VN#1 sent for CEMs reporting)
09/29/2022	CAM Excursions/Exceedan ces	Compliance	Postmarked 9/15/22. No CAM excursion/exceedances reported
09/29/2022	CAM monitor downtime	Compliance	Postmarked 9/15/22. No CAM monitor downtime reported

Activity Date	Activity Type	Compliance Status	Comments
09/20/2022	Complaint Investigation	Unknown	On site visit to see solids removal progress and state of pond systems. Odor complaints have been received. Odor evaluation not performed due to rain storm that started shorty after odor evaluation began.
09/08/2022	CAM monitor downtime	Compliance	No CAM monitor downtime reported
07/21/2022	Odor Evaluation	Compliance	Odor observation July 21, on site review July 25, 2022.
07/08/2022	ROP Semi 1 Cert	Compliance	EUBOILER #6 66 days no CEMS cal; EUBOILER#8 64 hours no NOx CEMS monitoring
07/08/2022	ROP Annual Cert	Compliance	Jan-Jul 2021: EUBOILER #6 66 days no CEMS cal; EUBOILER#8 124 hours no NOx CEMS monitoring, 6 days no CEMS NOx cal. VN sent and site visit for CEMS review conducted by TPU. No Deviations reported Jul - Dec 2021
07/08/2022	ROP SEMI 2 CERT	Compliance	No Deviations reported Jul - Dec 2021.
07/07/2022	CAM Excursions/Exceedan ces	Compliance	No CAM excursions/exceedances reported
06/30/2022	ROP Monthly	Compliance	January 2022 - Anamet SO2 Gas Generation - 12 month rolling total of 1.02 tons.
06/30/2022	ROP Monthly	Compliance	January 2022 - Anamet SO2 Gas Generation - 12 month rolling total of 1.10 tons.
06/30/2022	ROP Monthly	Compliance	March 2022 - Anamet SO2 Gas Generation - 12 month rolling total of 1.07 tons.
06/30/2022	ROP Monthly	Compliance	April 2022 - Anamet SO2 Gas Generation - 12 month rolling total of 1.00 tons.
06/23/2022	Odor Evaluation	Compliance	odor evaluation in response to 7 complaints received between June 11 and June 23, 2022.
06/10/2022	Odor Evaluation	Compliance	Odor evaluation in response to complaints received May 25 to June 10, 2022
05/25/2022	Odor Evaluation	Non Compliance	Odor investigation in response to complaints received between May 13 and May 24, 2022. Nuisance odors from rotting beet pieces and inadequate wastewater treatment. VN sent

Activity Date	Activity Type	Compliance Status	Comments
05/20/2022	ROP Other	Compliance	Third quarter cylinder gas audit conducted 9/30/2021. CGA accuracy must be +/- 15% average audit value or 5 ppm standard. All CGA results were +/- <7.51%
05/20/2022	Excess Emissions (CEM)		Third quarter operation report and CEM summary reports for Boilers 6, 7, 8 boiler 6 reported 0 hrs excess emissions, 53 hrs non-monitor equipment malfunctions hrs (0.24% operating time) boiler 7 reported 0 hours excess emissions, 37 hrs (0.03%) non- monitor equipment malfunctions boiler 8 reported 0 hours excess emissions, 15 hrs (0.015%) monitor malfunction
05/12/2022	Odor Evaluation	Non Compliance	Odor investigation in response to complaints received between April 23 and May12, 2022. Nuisance odors from rotting beet pieces and inadequate wastewater treatment. VN sent.
04/22/2022	Odor Evaluation	Non Compliance	Odor investigation in response to 10 complaints received between February 21 and April 22, 2022. Nuisance odors from rotting beet pieces and inadequate wastewater treatment. VN sent May 9, 2022.
02/09/2022	ROP Monthly	Compliance	November 2021 - Anamet SO2 Gas Generation - 12 month rolling total of 0.91 tons.
01/13/2022	Odor Evaluation	Compliance	Odor observation in response to six complaints received since Dec 22, 2021.
12/28/2021	ROP Monthly	Compliance	August 2021 - Anamet SO2 Gas Generation - 12 month rolling total of 0.96 tons.
12/28/2021	ROP Monthly	Compliance	September 2021 - Anamet SO2 Gas Generation - 12 month rolling total of 0.95 tons.
12/28/2021	ROP Monthly	Compliance	October 2021 - Anamet SO2 Gas Generation - 12 month rolling total of 0.97 tons.
12/28/2021	ROP Monthly	Compliance	November 2021 - Anamet SO2 Gas Generation - 12 month rolling total of 0.91 tons.
12/22/2021	Odor Evaluation	Compliance	odor evaluation with MDARD staff Laura Doud in response to 7 complaints received between December 13 and December 21, 2021.

Activity Date	Activity Type	Compliance Status	Comments
09/16/2021	ROP Monthly	Compliance	May 2021 - Anamet SO2 Gas Generation - 12 month rolling total of 0.93 tons.
09/16/2021	ROP Monthly	Compliance	June 2021 - Anamet SO2 Gas Generation - 12 month rolling total of 0.95 tons.
09/16/2021	ROP Monthly	Compliance	July 2021 - Anamet SO2 Gas Generation - 12 month rolling total of 0.95 tons.
09/16/2021	ROP Other	Compliance	Anaerobic digester monthly report
09/07/2021	ROP Other	Compliance	Anaerobic digester monthly report
08/04/2021	Odor Evaluation	Compliance	Odor observation with Eric Rupprecht and Meaghan Martuch of MSC BC. Followed observation with on site review of WWTS and lime pile operations. 29 complaints between April 16 and Aug 2, 2021. Earlier complaint likely associated with pond upset. Later complaints likely affiliated with solids removal. At time of observation objectionable odors were present but not of a duration and intensity to violate Rule 901.
06/01/2021	Excess Emissions (CEM)	Compliance	 3rd Quarter CEM Summary Reports for Boilers 6, 7, 8. A cylinder gas audit was performed 9/5/2019 CEMS report for Boiler #6 indicated no excess emissions and no CEMS Downtime (0%). 0.6 hours of non-monitor equipment malfunctions. Boiler #7 also did not report any excess emissions for the quarter. 1.6 hours of CEMS downtime (0.11%) due to unknown cause. Boiler #8 reported no excess emission for the quarter and CEMS downtime of 1.3 hr (0.11%) due to unknown cause. A cylinder gas audit was performed 9/5/2019 Passing results is plus or minus 15% of the average audit value, or plus or minus 5 ppm, whichever is greater. audit results reported average accuracies for the NOX and O2 CEMS for all three boilers below plus or minus 7.6%.

Activity Date	Activity Type	Compliance Status	Comments
06/01/2021	Excess Emissions (CEM)	Compliance	Cylinder Gas Audit for Boilers 6, 7, 8 A cylinder gas audit was performed 9/5/2019 Passing results is plus or minus 15% of the average audit value, or plus or minus 5 ppm, whichever is greater. audit results reported average accuracies for the NOX and O2 CEMS for all three boilers below plus or minus 7.6%.
06/01/2021	Excess Emissions (CEM)	Compliance	First quarter operating report and CEM summary reports for boilers 6, 7, 8 and gas audit CEMS report for Boiler #6 iand #7 ndicated no excess emissions and no CEMS Downtime (0%). 0 hours of non-monitor equipment malfunctions.
			Boiler #8 reported no excess emission for the quarter and CEMS downtime of 101.4 hrs (5%) due to monitor equipment malfunction
			A cylinder gas audit was performed 3/26/2020. Passing results is plus or minus 15% of the average audit value, or plus or minus 5 ppm, whichever is greater. audit results reported average accuracies for the NOX and O2 CEMS for all three boilers below plus or minus 3.2%.

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10/2/2023 Supervisor:

Name: Kathy Brune Date:

Activity Date	Activity Type	Compliance Status	Comments
06/01/2021	Excess Emissions (CEM)	Compliance	Second Quarter Summary Report for Gaseous Excess Emission and Monitoring System CGA initiated June 2020, not completed. Boiler 7-8 CEMs require repairs. CEMS report for Boiler #6 indicated no excess emissions and 0.17 hr CEMS Downtime (0.01%). of non-monitor equipment malfunctions. Boiler #7 also did not report any excess emissions for the quarter. 0.17 hours of CEMS downtime (0.02%) due to monitor equipment malfunctions . Boiler #8 reported no excess emission for the quarter and CEMS downtime of 0.5 hr (0.09%) due to monitor equipment malfunctions . A cylinder gas audit was performed 8/20/2020 Passing results is plus or minus 15% of the average audit value, or plus or minus 5 ppm, whichever is greater. audit results reported average accuracies for the NOX
06/01/2021	CEM RATA	Compliance	below plus or minus 5.2%. 2020 RATA Boilers 6,7,8, All
			<20% of mean reference value or <10% of standard