

DEPARTMENT OF ENVIRONMENTAL QUALITY

AIR QUALITY DIVISION

FCE Summary Report

Facility : GM Technical Center	SRN : B4049
Location : 31295 Charles Kettering Road MC: 480-101-240	District : Warren
	County : MACOMB
City : WARREN State: MI Zip Code : 48092	Compliance Status : Compliance
Source Class : MAJOR	Staff : Mark Dziadosz
FCE Begin Date : 6/1/2021	FCE Completion Date : 9/14/2023
Comments : Full compliance evaluation	

List of Partial Compliance Evaluations :

Activity Date	Activity Type	Compliance Status	Comments
08/08/2023	MACT (Part 63)	Compliance	15 Day Notification of Actual Startup of an Affected Source under 40 CFR Part 63, Subpart DDDDD - NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters. This is for second identical boiler in Manufacturing B.
08/01/2023	ROP Qrtly Cert	Compliance	PEMS Quarterly Report - 2023 2nd Quarter EUBoiler1-107, EUBoiler2-107, and EUBoiler3-107. Report indicates compliance.
06/29/2023	On-site Inspection	Compliance	FY 2023 Inspection
06/07/2023	ROP R215 Notification	Compliance	New Responsible Official: Amanda Allen, Senior Manager CCA and Sustainable Workplaces Facilities Operations.
05/08/2023	MAERS	Compliance	MAERS Report Submission. Report indicates compliance.
05/03/2023	ROP Annual Cert	Compliance	Resubmitted Annual Certification since facility previously misidentified the Group ID on the deviation form.
05/03/2023	ROP Qrtly Cert	Compliance	PEMS Quarterly Excess Emissions Report - 2023 1st Quarter EUBoiler1-107, EUBoiler2-107, and EUBoiler3-107. Report indicates compliance.

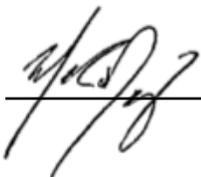
Activity Date	Activity Type	Compliance Status	Comments
05/03/2023	MACT (Part 63)	Compliance	2022 Rata Report on the PEMS for EUBoiler1-107, EUBoiler2-107, and EUBoiler3-107. RATA report indicates compliance.
04/03/2023	MAERS	Compliance	2022 MAERS Certification and Electronic Submittal. Report indicates compliance.
03/21/2023	ROP SEMI 2 CERT	Compliance	4 deviations reported. 2 were related to Styrofoam escaping to the parking lot from the milling operation. This occurred twice. System has been permanently shut down. EUBOILER3 was late on the 61-month tune up requirement (Due October 27, 2022 completed November 11, 2022). Compliance reports to CEDRI were not reported on time. Compliance date was incorrectly entered by GM as 2023 not 2022. Compliance reports were submitted on 3/15/23. This was caught internally by GM. Facility also misidentified the Group ID on the deviation form. Asked the facility to resubmit. No VN will be sent.
03/21/2023	ROP Annual Cert	Compliance	Annual compliance certification. 4 deviations reported. 2 were related to Styrofoam escaping to the parking lot from the milling operation. This occurred twice. System has been permanently shut down. EUBOILER3 was late on the 61-month tune up requirement (Due October 27, 2022 completed November 11, 2022). Compliance reports to CEDRI were not reported on time. Compliance date was incorrectly entered by GM as 2023 not 2022. Compliance reports were submitted on 3/15/23. This was caught internally by GM. Facility also misidentified the Group ID on the deviation form. Asked the facility to resubmit. No VN will be sent.

Activity Date	Activity Type	Compliance Status	Comments
02/28/2023	ROP R215 Notification	Compliance	Installation of three 5.278 mmBtu/hr natural gas fired hot water boilers to be used for building and process heating in the Climatic Wind Tunnel building. Increases to PTE are NOx (6.80), CO (5.71), VOC (0.35), SO2 (0.04), and PM (0.52) tons per year, all below significance thresholds.
02/28/2023	MACT (Part 63)	Compliance	15 Day Notification of Actual Startup of an Affected Source under 40 CFR Part 63, Subpart DDDDD - NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters. Report indicates compliance.
02/28/2023	MACT (Part 63)	Compliance	Boiler MACT Tune-up Compliance Report submitted electronically through CEDRI on 2/21/2023. Report indicates compliance.
01/24/2023	ROP R215 Notification	Compliance	15 Day Notification for Actual Startup for one (1) natural gas hot water generator/boiler rated at 3.5 MMBtu/hr heat input.
01/24/2023	ROP Other	Compliance	PEMS Excess emission report for EUBoiler1-107, EUBoiler2-107, EUBoiler3-107. Report shows compliance.
12/13/2022	ROP Other	Compliance	Source Test Report for 2022 PEMS RAA Testing. FG-BOILERSBLDG107 (EU-Boiler1-107, EU-Boiler2-107, EU-Boiler3-107). Report indicates compliance. All 3 boilers passed the RAA. Boiler 1-0.49%RA O2 (limit 1%), NOx-18.5% (limit 20%); Boiler 2-0.059%RA O2 (limit 1%), NOx-5.04% (limit 20%); Boiler 1-0.46%RA O2 (limit 1%), NOx-7.53% (limit 20%);
11/30/2022	ROP Qrtly Cert	Compliance	PEMS Quarterly Report - 2022 3rd Quarter EUBoiler1-107, EUBoiler2-107, and EUBoiler3-107. Report indicates compliance.
11/23/2022	ROP R215 Notification	Compliance	Installation of (2) Diesel Fire Pumps rated at 121 hp for the Estes Engineering Center. Engines are new, certified, and exempt per 285(2)(g) and subject to NSPS Subpart IIII. Increases to PTE are NOx (0.4), CO (0.3), VOC (0.2), SO2 (0.1), and PM (0.02) tons per year, all below significance thresholds.

Activity Date	Activity Type	Compliance Status	Comments
09/28/2022	ROP R215 Notification	Compliance	Decommissioning of two 13 MMBtu/hr natural gas fired hot water boilers (EU-BOILER1CL and EU-BOILER2CL) that were used for building and process heating in the Climatic Wind Tunnel. Decreases to PTE are NOx (11.16), CO (9.38), VOC (0.57), SO2 (0.07), and PM (0.85) tons per year.
09/07/2022	ROP R215 Notification	Compliance	15 Day Notification of Actual Startup for three (3) natural gas hot water generators/boilers each rated at 2.79 MMBtu/hr heat input.
08/16/2022	ROP Other	Compliance	Initial Notification of Intention to Construct: Installation of one 3.5 MMBtu/hr natural gas fired hot water boiler in the Manufacturing B building. This hot water boiler will be used for building and process heating.
08/10/2022	ROP R215 Notification	Compliance	Initial Notification: Installation of (1) emergency generator engine for the RSB - Kettering Research and Development building. Report indicates compliance.
08/10/2022	ROP Qrtly Cert	Compliance	PEMS Quarterly Report - 2022 2nd Quarter EUBoiler1-107, EUBoiler2-107, and EUBoiler3-107. Report indicates compliance.
08/10/2022	ROP R215 Notification	Compliance	Initial Notification: Installation of six 4.99 MMBtu/hr natural gas fired hot water boilers to be used for building and process heating in the Wallace Battery Cell Innovation Center. Report indicates compliance.
08/10/2022	ROP Other	Compliance	Initial Notification of Intention to Construct: As a replacement, GM intends to install three 5.278 MMBtu/hr natural gas fired boilers. This will replace 2 existing boilers identified as EI-BOILER1CL and EU-BOILER2CL. Report indicates compliance.
07/14/2022	ROP R215 Notification	Compliance	Initial Notification Report: Installation of (2) emergency generator engines and (1) firepump for the Wallace Battery Cell Innovation Center and Additive Innovation Center.

Activity Date	Activity Type	Compliance Status	Comments
06/08/2022	ROP Other	Compliance	2022 Relative Accuracy Test Audit (RATA) Report. Report indicates compliance. B1 RA-12.76%, B2- 7.41%, B3- 6.68%.
06/08/2022	ROP Other	Compliance	15 Day Notification of Actual Startup of an Affected Source - Subpart DDDDD - NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters.
06/01/2022	ROP Qrtly Cert	Compliance	PEMS Quarterly Report - 2021 3rd Quarter EUBoiler1-107, EUBoiler2-107, and EUBoiler3-107. The report indicates that the boilers were operated in compliance during the reporting period. there has not been NOx exceedance, monitoring downtime, or missing records.
05/19/2022	MAERS	Compliance	2021 MAERS Certification and Supplemental Control Template (submitted electronically). Report passed audit.
05/03/2022	ROP R215 Notification	Compliance	Notification of change: Installation of 2 new certified, exempt per 285 (2)(g), emergency generator engines subject to NSPS Subpart JJJJ for the new Design Studio. Increases to PTE are NOx (0.53), CO (1.06), VOC (0.26), and PM (0.02) tons per year, all below significant thresholds.
04/22/2022	ROP Qrtly Cert	Compliance	PEMS Quarterly Report - 2022 1st Quarter EUBoiler1-107, EUBoiler2-107, and EUBoiler3-107. Report indicates compliance.
04/06/2022	MACT (Part 63)	Compliance	Copy of Boiler MACT Tune-up Compliance Report that was submitted electronically through CEDRI on February 25, 2022. All inspections/tune-ups completed except for EU-MISCBOILGAE1 & 2 was not yet required.
03/22/2022	ROP Annual Cert	Compliance	Annual compliance certification. Zero deviations reported.
03/22/2022	ROP SEMI 2 CERT	Compliance	Zero deviations reported.
03/11/2022	Complaint Investigation	Compliance	Complaint: C-22-00510 (3/1/2022) Dock 12: General Motors Technical Center (U-50-22-01166). Styrofoam fall-out in the parking lot area.

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03/02/2022	Complaint Investigation	Compliance	Complaint No. C-22-00510 Styrofoam particle fallout investigation. PPO South Building 18 & DOC 12.
06/15/2021	On-site Inspection	Compliance	FY2021 ROP CMS scheduled inspection (on-site) of General Motors, LLC - Warren Technical Center (B4049) ("GM" or "Tech Center")

Name: 

Date: September 14, 2023

Supervisor: 