

DEPARTMENT OF ENVIRONMENTAL QUALITY

AIR QUALITY DIVISION

FCE Summary Report

Facility : UNIVERSITY OF MICHIGAN	SRN : M0675
Location : 1239 KIPKE DR EHS / CSSB	District : Jackson
	County : WASHTENAW
City : ANN ARBOR State: MI Zip Code : 48109	Compliance Status : Compliance
Source Class : MAJOR	Staff : Diane Kavanaugh Vetort
FCE Begin Date : 5/9/2021	FCE Completion Date : 5/9/2022
Comments : Major Source compliance inspection FCE	

List of Partial Compliance Evaluations :

Activity Date	Activity Type	Compliance Status	Comments
05/02/2022	Excess Emissions (CEM)	Compliance	Rec'd CPP BOILER 6 2022 1 ST QUARTER REPORT. Central Power Plant. ROP (prior PTI 42-98) NOx. Excess Emissions and Monitoring System Performance report and quarterly linearity. 0% EE, 0.2% monitor downtime events (3 hours). Linearity passed. Compliant.
04/13/2022	On-site Inspection	Compliance	Major Source FCE/PCE over two days: 4/13 Day 1 and 5/9 Day 2. On 4/13 Conducted compliance inspection of Central Power Plant existing boilers & turbines and the NEW Combined heat & power, heat recovery & steam generating system (CHP-HRSG) Turbine / duct burner /boiler. CPP & CHP RATA were also conducted this week Tues-Fri. Observed RATA of BLR 3 today. On 5/9: Inspection NCRC, Auto Lab; Crematory; construction site of new Engine Generators (permit extension).
04/13/2022	Stack Test Observation	Compliance	

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04/12/2022	MAERS	Compliance	MAERS certification received via mail with original signature, stating it was also submitted electronically. Report: CO 127 tons; NOx 295 tons; PM10&2.5 <1 ton; PM10P & 2.5P 15 tons each; SO2 2 tons; TOC 2 tons; VOC 14 tons. EtO =1159 loads; Crematory remains burned= 20,972 lbs; All natural gas and fuel oil usage reported = primarily have combustion sources boilers, turbines, ICEs. Support docs emailed/mailed. Combination MAERS EF, tests, other. Acceptable.
03/17/2022	MACT (Part 63)	Compliance	2021 40 CFR 63 Subpart DDDDD (63.7550(h)(3)), Boiler MACT Annual Report identifying all subject boilers. 54 pages, two boilers listed per page. Section 3 of report is the Certification - complete. Operating information is included in MAERS. Submitted to EPA Central Data Exchange (CDX).
03/16/2022	ROP Other	Compliance	Documents AQD received UM written notification of the installation and start-up of the combined heat and power (CHP) unit located at the Central Power Plant was completed on March 4, 2022. EUCPP-CHPHRSG MI ROP / PTI M0675-2021.
03/14/2022	ROP Annual Cert	Compliance	2021 Annual Cert & Dev Report. UM reports no deviations. UM is scheduled for FCE FY22 and records will be verified at that time.
03/14/2022	ROP SEMI 2 CERT	Compliance	2021 2nd Semi annual Cert & Dev Report. UM reports no deviations. UM is scheduled for FCE FY22 and records will be verified at that time.

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02/25/2022	CEM RATA	Compliance	Received UM Central Power Plan (CPP) Combined Heat and Power (CHP) RATA Plan. The signed copy was sent to Karen. Continuous Emission Monitoring (CEM) systems associated with EUB0260-03, -04, AND -06. Montrose Air Quality Services is the tester. O2 and NOx estimate test dates April 12-14. Lindsey Wells, TPU assigned / approval letter sent. BLR #6 12th; #3 13th; #4 14th; CHP 15th. DKV & TPU observed on 13th.
02/10/2022	Other	Compliance	Received letter - ROP on 8/6/21, a template error was found that was included in the U-M ROP. After discussing the error with EGLE, it was determined that this specific semi-annual reporting condition applies to area sources and not major sources.
01/31/2022	Excess Emissions (CEM)	Compliance	Rec'd CPP BOILER 6 4TH QUARTER REPORT. Central Power Plant. ROP (prior PTI 42-98) NOx. Excess Emissions and Monitoring System Performance report and quarterly linearity. 0% EE, 0.2% monitor downtime events (4 hours). Linearity passed. Compliant.
12/29/2021	Other	Compliance	Document AQD approval of 18-month extension for PTI 34-20. AQD issued letter to UM on this date. UM submitted a formal written request for extension due to COVID 19 delays in 2020 that precluded commencing construction of the three diesel generators. New 18 month deadline is Sept 2023.
10/29/2021	Stack Test	Compliance	Research Museums Center 550kw (737 HP) SI- Emergency generator EUVARSITY550KW Test Results Report. Nat gas fired, Subpart JJJJ. Tester: Impact Compliance & testing. Test conducted: 9-30-21; Protocol dated 8-16-21 was reviewed/approved. Has 2 stacks & non-selective catalytic reduction (NSCR) system. CO 18.9 (limit 540 ppmvd); NOx 105 (limit 160 ppmvd); VOC 3.49 (limit 86 ppmvd). Passed. Acceptable.

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10/27/2021	Excess Emissions (CEM)	Compliance	Rec'd CPP BOILER 6 3RD QUARTER REPORT. Central Power Plant. ROP (prior PTI 42-98). Existing CEMS was replaced with new unit. Excess Emissions and Monitoring System Performance report and quarterly linearity. 0% EE, 0.2% monitor downtime events. Linearity passed. Compliant.
10/26/2021	ROP Semi 1 Cert	Compliance	2021 1st Semi annual Cert & Dev Report. UM reports no deviations. It is noted however that TPU issued a VN for 2nd Quarter CEM monitor downtime. Report was rec'd July 27 and VN issued 9/2/21. UM did not indicate deviation during this period. Note: may report in 2nd Semi annual or did not report deviation since appear to have met conditions but were over % (not in condition). The downtime was over 10% VN cited SC VI.2, VI.7 IX.1 and IX.3.
10/08/2021	Telephone Notes	Compliance	UM contacted AQD with ROP compliance related questions. Fuel Sampling and FGICTENGINE permit commence construction timeframe.
09/01/2021	CEM RATA	Compliance	Received UM Central Power Plan (CPP) Combined Heat and Power (CHP) RATA Plan. The signed copy was sent to Karen.
09/01/2021	Telephone Notes		Call from UM to discuss Fuel Oil sampling conditions, specifically Hoover Heating Plant. Recent renewal issuance has new condition allowing supplier specifications of Sulfur % in lieu of fuel oil sampling when received.
07/29/2021	CEM RATA	Compliance	Replacement CEMS Initial Performance tests. Part 75 RATA test for Bioler Nos. 3,4, and 6 CEMS located at U of M Central Power Pant. Tests were performed the week of 4/12/21. Also included is the 7-day drift test data and the linearity data for the new CEMS analyzer certification. NOx, O2. 7/29/21 Rec'd Mark D. TPU review letter to UM = satisfied requirements of Part 75. Model ENDA-7220C, P-5077, 5078, 5079

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07/26/2021	Excess Emissions (CEM)	Compliance	2021 Quarter 2 CEMS Report for Boiler 6, Central Power Plant. ROP(prior PTI 42-98). Existing CEMS was replaced with new unit. Excess Emissions and Monitoring System Performance report and quarterly linearity. 0 EE, 10.3% downtime events. Report NOx converter failed twice. Boiler 6 was taken out of service both times. Determined contractor installed incorrect wire. Fixed & issue resolved. Linearity passed. Fuel Oil usage 0. gal/hr. Compliant.
07/06/2021	MACT (Part 63)	Compliance	Initial Notification 40 CFR 63, Subpart DDDDD received for new boiler 2.07 MMBtu/hr natural gas at Yost Arena. Filed.

Name: *Diane Kavanaugh Vetest*

Date: 5/19/22

Supervisor: 