

DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

FCE Summary Report

Facility : ST. CLAIR / BELLE RIVER POWER PLANT	SRN : B2796
Location : 4505 King Road	District : Warren
	County : SAINT CLAIR
City : CHINA TWP State: MI Zip Code : 48054	Compliance Status : Compliance
Source Class : MAJOR	Staff : Mark Dziadosz
FCE Begin Date : 3/1/2022	FCE Completion Date : 9/16/2022
Comments : Full compliance evaluation.	

List of Partial Compliance Evaluations :

Activity Date	Activity Type	Compliance Status	Comments
09/08/2022	ROP Semi 1 Cert	Compliance	DTE Electric Company - Belle River Fuels Company, LLC No deviations reported. The facility ceased operations on 12/27/21.
09/08/2022	ROP Semi 1 Cert	Compliance	DTE Electric Company - St. Clair Fuels Company, LLC No deviations reported. The facility has been removed form service.
08/18/2022	ROP Semi 1 Cert	Compliance	DTE Electric Company - Blue Water Energy Center No deviations reported
08/11/2022	On-site Inspection	Compliance	FY 2022 inspection
08/10/2022	Excess Emissions (CEM)	Compliance	2nd Quarter 2022 Excess Emission Report for DTE St. Clair Power Plant. Report indicates compliance.
08/10/2022	Excess Emissions (CEM)	Compliance	2nd Quarter 2022 Opacity Excess Emission Reports for DTE Belle River Power Plant. Report indicates compliance.
08/02/2022	Excess Emissions (CEM)	Compliance	2nd Quarter 2022 Opacity Excess Emission Reports for DTE Dean Peakers. Report indicated compliance.
08/02/2022	Excess Emissions (CEM)	Compliance	2nd Quarter 2022 Opacity Excess Emission Reports for DTE Belle River Peakers. Report indicates compliance.

Activity Date	Activity Type	Compliance Status	Comments
07/06/2022	MACT (Part 63)	Compliance	2nd Quarter Test Report for HCl on EU-BOILER6-SC (Unit 6), conducted on May 18, 2022. Results indicate compliance. HCl emissions=0.0007 lb/MMBtu; MATS limit=0.002.
07/06/2022	MACT (Part 63)	Compliance	2nd Quarter Test Report for HCl on EU-BOILER3-SC (Unit 3), conducted on May 17, 2022. Results indicate compliance. HCl emissions=0.0006 lb/MMBtu; MATS limit=0.002.
07/06/2022	MACT (Part 63)	Compliance	2nd Quarter Test Report for HCl on EU-BOILER2-SC (Unit 2), conducted on May 16, 2022. Results indicate compliance. HCl emissions=0.0008 lb/MMBtu; MATS limit=0.002.
07/06/2022	MACT (Part 63)	Compliance	2nd Quarter Test Report for HCl on EU-BOILER2-BR (Unit 2), conducted on May 23, 2022. Results indicate compliance. HCl emissions=0.0013 lb/MMBtu; MATS limit=0.002.
06/28/2022	MACT (Part 63)	Compliance	Relative Correlation Audit (RCA) Test Report for PM CEM on the exhaust of Unit 3, St. Clair Power Plant. Results indicate compliance.
06/28/2022	ROP Other	Compliance	ROP Emissions Test Report EU-BOILER6-SC Hg RATA 2022. Report indicates compliance. RA=3.9%, passing is 20%.
06/28/2022	ROP Other	Compliance	ROP Emissions Test Report EU-BOILER2-SC Hg RATA 2022. Report indicates compliance. RA=4.4%, passing is 20%.
06/21/2022	Other Non ROP	Compliance	Certification Application/Reports for the newly constructed Bluewater Energy Center (ORIS Code 62192), Units 11 and 12. PST for Unit 11 and 12 CEMS. Results indicate compliance. Unit 11 NOx- O% RA (7.5% annual-passing), CO-5.18% (20% passing). Unit 12 NOx-5.6% RA (7.5% annual-passing), CO-4.79%(20% passing).

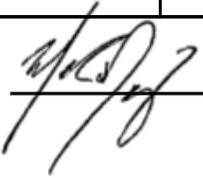
Activity Date	Activity Type	Compliance Status	Comments
06/21/2022	MACT (Part 63)	Compliance	Source Test Report for 2022 Compliance Testing Auxiliary Boiler - DTE Electric Company - Blue Water Energy Center Results indicate compliance. PM=0.1 lb/hr; limit=0.7 NOx=2.82 lb/hr; limit=3.6 CO=0 lb/hr; limit= 7.49 VOC=0.00831 lb/hr; limit=0.8 lb/hr.
06/21/2022	MACT (Part 63)	Compliance	Source Test Report for 2022 Compliance Testing Two Fuel Gas Water Bath Heaters - DTE Electric Company - Blue Water Energy Center. Results indicate compliance. HP heater-PM=.017 lb/hr. Limit=0.15. VOC = 0 lb/hr limit=0.17 lb/hr. LP-heater-PM=0.005 lb/hr; limit=0.03 VOC-0 lb/hr; limit=0.17 lb/hr.
06/21/2022	MACT (Part 63)	Compliance	Source Test Report for 2022 Compliance Testing Diesel-fired Emergency Generator - DTE Electric Company - Blue Water Energy Center Results indicate compliance. Result=0.24 lb/hr; limit=1.89
06/21/2022	MACT (Part 63)	Compliance	Source Test Report for 2022 Compliance Testing Combustion Turbine Generators with Heat Recovery Steam Generators GT11 - DTE Electric Company - Blue Water Energy Center Results indicate compliance. GT11 Fired-PM=8.77 lb/hr; limit=16; SO2=0.000085 lb/MMBtu; limit=0.0012; H2SO4=0.214 lb/hr; limit=5.04; 0.000006 lb/MMBtu; limit=0.0013; VOC=0.00 lb/MMBtu; limit=0.0026 GT11 Unfired-PM=11.53 lb/hr; limit=12.2; SO2=0.000086 lb/MMBtu; limit=0.0012; H2SO4=0.0125 lb/hr; limit=5.04; 0.000004 lb/MMBtu; limit=0.0013; VOC=0.00 lb/MMBtu; limit=0.0013

Activity Date	Activity Type	Compliance Status	Comments
06/21/2022	MACT (Part 63)	Compliance	Source Test Report for 2022 Compliance Testing Combustion Turbine Generators with Heat Recovery Steam Generators GT12 - DTE Electric Company - Blue Water Energy Center Results indicate compliance. GT12 Fired-PM=8.9 lb/hr; limit=16; SO2=0.000086 lb/MMBtu; limit=0.0012; H2SO4=0.0303 lb/hr; limit=5.04; 0.000008 lb/MMBtu; limit=0.0013; VOC=0.00 lb/MMBtu; limit=0.0026 GT12 Unfired-PM=8.13 lb/hr; limit=12.2; SO2=0.000086 lb/MMBtu; limit=0.0012; H2SO4=0.0383 lb/hr; limit=5.04; 0.000011 lb/MMBtu; limit=0.0013; VOC=0.00 lb/MMBtu; limit=0.0013
06/21/2022	MACT (Part 63)	Compliance	Mercury RATA Test Report for Hg STMS on the exhaust of EUBOILER3-SC. Results indicate compliance. RA=2.05%; passing =20%
05/31/2022	MACT (Part 63)	Compliance	Quarterly HCl emissions test report for EU-BOILER7-SC, Unit 7, 2nd Quarter 2022. Results indicate compliance with MATS emission limit. Results 0.0007 lb/MMBtu (MATS limits 0.002 lb/MMBtu).
05/26/2022	MAERS	Compliance	MAERS Report Submission. Report passed audit.
05/26/2022	MAERS	Compliance	MAERS Certification and 2021 MAERS Supplemental Control Template (SCT) submitted. Report passed audit.
05/25/2022	MACT (Part 63)	Compliance	Relative Correlation Audit (RCA) Test Report for Particulate Matter Continuous Emissions Monitoring System (PM CEM) on the exhaust of Unit 2; EU-BOILER2-SC, St. Clair Power Plant. Results indicate compliance.
05/11/2022	Stack Test	Compliance	Test Report for PTI 331-98C compliance emissions testing of three natural gas-fired combustion turbine generator (CTG) units at the Belle River Peaker facility located in China Township. Results indicate compliance.

Activity Date	Activity Type	Compliance Status	Comments
05/11/2022	Stack Test	Compliance	Mercury STMS RATA Report for Unit 2 - Belle River EU-BOILER2-BR. Results indicate compliance.
05/10/2022	Excess Emissions (CEM)	Compliance	1st Quarter 2022 Excess Emission Report for DTE St. Clair Power Plant. Report indicates compliance.
05/06/2022	MACT (Part 63)	Compliance	ROP Emissions Test Report, EU-BOILER2-BR, PM RCA; Belle River Power Plant. Results indicate compliance.
05/05/2022	ROP Other	Compliance	Revised Fugitive Dust Control Plan due to Violation Notice.
05/03/2022	Stack Test	Compliance	Test Report for PTI 116-01B compliance emissions testing of four natural gas-fired combustion turbine generator (CTG) units at the Dean Peaker facility located in China Township. Report indicates compliance with emission limits.
05/03/2022	Excess Emissions (CEM)	Compliance	1st Quarter 2022 Opacity Excess Emission Reports for DTE Belle River Power Plant. Report indicates compliance.
05/02/2022	Excess Emissions (CEM)	Compliance	1st Quarter 2022 Opacity Excess Emission Reports for DTE Belle River CTG Peakers. Report indicates compliance.
05/02/2022	Excess Emissions (CEM)	Compliance	1st Quarter 2022 Opacity Excess Emission Reports for DTE Dean CTG Peakers. Report indicates compliance.
04/13/2022	MACT (Part 63)	Compliance	Belle River Power Plant - Quarterly Test Report for HCl on the exhaust of EU-BOILER2-BR (Unit 2) for compliance with MATS emission limits. HCl Emission Rate=0.0006 lb/MMBtu MATS Limit=0.002 lb/MMBtu
04/06/2022	ROP Annual Cert	Compliance	Amended Annual Certification with revised Deviation Report.
04/06/2022	ROP Semi 1 Cert	Compliance	Amended Semi-Annual 1 Certification with revised Deviation Report.

Activity Date	Activity Type	Compliance Status	Comments
04/06/2022	ROP Annual Cert	Compliance	Report indicates Opacity limit exceedances due to startup/shutdown during the first quarter of 2021. The EERs were reviewed and discussed with Brian Carley. The 3 separate 6-minute precipitator failures does not warrant a VN. The issues are not ongoing and appear to be addressed.
04/06/2022	ROP SEMI 2 CERT	Compliance	Report indicates 7-day VE readings were not completed for FG-COALHAND-BR throughout 2021. VN will be sent.
03/30/2022	ROP Annual Cert	Compliance	St. Clair Diesel Generator Peakers. Zero deviations reported.
03/30/2022	ROP SEMI 2 CERT	Compliance	Belle River Peakers. Zero deviations reported.
03/30/2022	ROP Annual Cert	Compliance	Belle River Peakers. Zero deviations reported.
03/30/2022	ROP SEMI 2 CERT	Compliance	St. Clair Diesel Generator Peakers. Zero deviations reported.
03/30/2022	ROP Annual Cert	Compliance	Dean Peakers. Zero deviations reported.
03/30/2022	ROP SEMI 2 CERT	Compliance	Dean Peakers. Zero deviations reported.
03/30/2022	MACT (Part 63)	Compliance	Quarterly HCl emissions test report for EU-BOILER7-SC, Unit 7, 1st Quarter 2022. HCl emissions=0.0007 lb/MMBtu MATS limit=0.002 lb/MMBtu
03/23/2022	CAM Excursions/Exceedances	Compliance	Saint Clair Power Plant - FG-BLR-GEN-SC, VII.7. Report indicates compliance.
03/23/2022	CAM monitor downtime	Compliance	Saint Clair Power Plant - FG-BLR-GEN-SC, VII.8. Report indicates compliance.
03/23/2022	CAM monitor downtime	Compliance	Saint Clair Power Plant - Belle River Power Plant FG-BOILERS-BR, VII.9 Report indicates compliance
03/23/2022	CAM Excursions/Exceedances	Compliance	Saint Clair Power Plant - Belle River Power Plant FG-BOILERS-BR, VII.8 Report indicates compliance.
03/22/2022	MACT (Part 63)	Compliance	Quarterly HCl emissions test report for EU-BOILER1-BR, Unit 1, 1-21-2022; 1st Quarter 2022. Load -487 MW Emission rate: 0.0008 lbs/MMBtu MATS limit: 0.002 lbs/MMBtu

Activity Date	Activity Type	Compliance Status	Comments
03/22/2022	MACT (Part 63)	Compliance	Quarterly HCl emissions test report for EU-BOILER3-SC, Unit 3, 1-24-2022; 1st Quarter 2022. Load- 127.7 MW Emission rate: 0.0004 lbs/MMBtu MATS limit: 0.002 lbs/MMBtu
03/22/2022	MACT (Part 63)	Compliance	Mercury STMS RATA Report for Unit 1, EU-BOILER1-BR. STMS passed RATA at 7.73% RA (.04 ug/dscm mean difference + CC). Results indicate compliance.
03/22/2022	MACT (Part 63)	Compliance	Quarterly HCl emissions test report for EU-BOILER6-SC, Unit 6, 1st Quarter 2022. Load 222 MW. Emission rate: 0.0009 lbs/MMBtu MATS Limit: 0.002 lb/MMBtu
03/22/2022	MACT (Part 63)	Compliance	Belle River MATS Semi-Annual Compliance Report. Report indicates compliance.
03/22/2022	MACT (Part 63)	Compliance	Relative Correlation Audit Test Report for PM CEMs for Unit 1; Belle River Power Plant - EU-BOILER1-BR. Results indicate compliance. $y=.373x+1.47$
03/22/2022	ROP Annual Cert	Compliance	St. Clair Fuels Company, LLC Zero deviations reported.
03/22/2022	ROP SEMI 2 CERT	Compliance	St. Clair MATS Semi-Annual Compliance report. Report shows compliance.
03/10/2022	NSR Emissions Report	Compliance	2021 NSR Emissions Report for Saint Clair Power Plant for Units 6 and 7. .
03/10/2022	NSR Emissions Report	Compliance	2021 NSR Emissions Report for Belle River Power Plant for Units 1 and 2. .
03/10/2022	ROP Annual Cert	Compliance	Belle River Fuels Company, LLC Zero deviations reported.
03/01/2022	MACT (Part 63)	Compliance	Quarterly HCl emissions test report for EU-BOILER2-SC, Unit 2, 1-5-2022, First Quarter 2022. Load-125.3 GMW HCl results-0.0009 lb/MMBtu MATS limit-0.0020 lb/MMBtu
03/01/2022	MACT (Part 63)	Compliance	Quarterly HCl emissions test report for EU-BOILER7-SC, Unit 7, 12-28-2021; 4th Quarter. Load -267 MW Result-.0017 lb/MMBtu MATS limit-0.0020 lb/MMBtu

Name: 

Date: September 28, 2022

Supervisor: 