

DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

FCE Summary Report

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| Facility : DTE Electric Company - Greenwood Energy Center | | SRN : B6145 |
| Location : 7000 KILGORE ROAD | | District : Warren |
| | | County : SAINT CLAIR |
| City : AVOCA | State: MI | Zip Code : 48006 Compliance Status : Compliance |
| Source Class : MAJOR | | Staff : Robert Joseph |
| FCE Begin Date : 9/21/2022 | | FCE Completion Date : 8/19/2024 |
| Comments : Scheduled inspection of DTE Power Plant | | |

List of Partial Compliance Evaluations :

| Activity Date | Activity Type | Compliance Status | Comments |
|---------------|-----------------|-------------------|--|
| 07/03/2024 | ROP Annual Cert | Compliance | Annual ROP Certification January 1, 2023 - December 31, 2023 for Energy Center. No deviations reported. |
| 07/03/2024 | ROP SEMI 2 CERT | Compliance | Semi- Annual ROP Certification July 1, 2023 - December 31, 2023 for Peaking Station. No deviations reported. |
| 07/03/2024 | ROP Annual Cert | Compliance | Annual ROP Certification January 1, 2023 - December 31, 2023 for Peaking Station. No deviations reported. |
| 07/03/2024 | ROP SEMI 2 CERT | Compliance | Semi- Annual ROP Certification July 1, 2023 - December 31, 2023 for Energy Center. No deviations reported. |

| Activity Date | Activity Type | Compliance Status | Comments |
|---------------|------------------------------------|-------------------|---|
| 07/03/2024 | Excess Emissions (CEM) | Compliance | <p>Quarterly excess emission monitoring system performance report (Condition VII.4), excess opacity emissions report (Condition VII.6), and monthly average sulfur dioxide (SO₂) emission rate (Condition VII.7) or EU-BOILER1 for Jan. 1, 2024 - March 31, 2024.</p> <p>Total Source Operating Time: 679 hours</p> <p>Monthly Average SO₂: 0 lb/MMBtu SO₂: Excess Emissions = 0, CEMS Downtime = 0. NO_x: Excess Emissions = 0, CEMS Downtime = 0.</p> <p>Total Source Operating Time: 680.1 hours Opacity: 0%, CEMS Downtime = 0.50 hours due to calibration (0.1%)</p> |
| 07/03/2024 | On-site Inspection | Compliance | Schedule inspection of DTE Power Plant |
| 05/13/2024 | Annual Emissions Report (or MAERS) | Compliance | MiEnviro Annual Air Emissions Report submitted (Energy Center) |
| 05/13/2024 | Annual Emissions Report (or MAERS) | Compliance | MiEnviro Annual Air Emissions Report submitted (Peaking Station - Turbines) |

| Activity Date | Activity Type | Compliance Status | Comments |
|---------------|----------------------|-------------------|--|
| 03/12/2024 | NSR Emissions Report | Compliance | <p>2023 Maintenance Outage - 2023 New Source Review (NSR) Annual Emission Report.</p> <p>- Comparison of Baseline and Actual Emissions and Operations.</p> <p>2023 Maintenance Outage</p> <p>Baseline Emissions (985,392 MWh, 11,041,311 MMBtu, 14.3% capacity factor)</p> <p>PM: 0.007 lb/MMBtu, 38.6 tons/yr. NOx: 0.133 lb/MMBtu, 735.6 tons/yr. SO2: 0.001 lb/MMBtu, 3.9 tons/yr. CO2: 118.6 lb/MMBtu, 654,554 tons/yr.</p> <p>Actual Emissions (897,138 MWh, 10,210,390 MMBtu, 13.1% capacity factor)</p> <p>PM: 0.007 lb/MMBtu 35.7 tons/yr. NOx: 0.141 lb/MMBtu, 718.4 tons/yr. SO2: 0 lb/MMBtu, 3.7 tons/yr. CO2: 118.6 lb/MMBtu, 605,502 tons/yr.</p> <p>Excluded Emissions: None</p> <p>Emission Changes:</p> <p>PM: 2.9 tons/yr NOx: 17.2 tons/yr SO2: 0.2 tons/yr CO2: 49,051.4 tons/yr</p> |

| Activity Date | Activity Type | Compliance Status | Comments |
|---------------|------------------------|-------------------|---|
| 03/12/2024 | NSR Emissions Report | Compliance | <p>2020 Maintenance Outage - 2023 New Source Review (NSR) Annual Emission Report.</p> <p>- Comparison of Baseline and Actual Emissions and Operations.</p> <p>2023 Maintenance Outage</p> <p>Baseline Emissions (957,691 MWh, 10,776,246 MMBtu, 13.9% capacity factor)</p> <p>PM: 0.007 lb/MMBtu, 37.7 tons/yr. NOx: 0.132 lb/MMBtu, 713 tons/yr. SO2: 0.001 lb/MMBtu, 3.9 tons/yr. CO2: 118.6 lb/MMBtu, 638,846 tons/yr.</p> <p>Actual Emissions (897,138 MWh, 10,210,390 MMBtu, 13.1% capacity factor)</p> <p>PM: 0.007 lb/MMBtu 35.7 tons/yr. NOx: 0.141 lb/MMBtu, 718.4 tons/yr. SO2: 0.001 lb/MMBtu, 3.7 tons/yr. CO2: 118.6 lb/MMBtu, 605,502 tons/yr.</p> <p>Excluded Emissions: None</p> <p>Emission Changes:</p> <p>PM: 2.0 tons/yr NOx: 5.4 tons/yr SO2: 0.2 tons/yr CO2: 33,343.6 tons/yr</p> |
| 02/15/2024 | Excess Emissions (CEM) | Compliance | <p>Quarterly Excess Emission Monitoring System Performance and Opacity Excess Emission Report.</p> <p>EU-Boiler 1 -Monthly SO2 emission rate averages: Oct. - Dec. 2023 = 0 lbs/MMBtu</p> <p>Greenwood Stack 1 (NOx): 407 hours. 0 emissions/downtime Opacity: 25,002 minutes. 0 emissions/downtime (SO2): 407 hours. 0 emissions/downtime</p> |

| Activity Date | Activity Type | Compliance Status | Comments |
|---------------|------------------------|-------------------|---|
| 11/20/2023 | Excess Emissions (CEM) | Compliance | <p>Quarter Excess Emission Monitoring System Performance and Opacity Excess Emission Reports for the Greenwood Energy Center.</p> <p>3rd Quarter 2023: Quarterly Excess Opacity Emissions Report, per EUBOILER1.VII.6. Quarterly Excess Emission Monitoring System Performance Reports, per EUBOILER1.VII.4. Quarterly report of monthly average Sulfur Dioxide Emission Rate, per EUBOILER1.VII.7.</p> <p>July - September 2023: SO2 emission rate averages = SO2/MMBtu</p> <p>Stack 1: NOx = 1616 operating hrs (48 hrs failed calibration downtime). No exceedances.</p> <p>Opacity = 99,216 operating minutes (144 minutes downtime instrument maintenance). No exceedances.</p> <p>Stack 1: SO2 = 1616 operating hours (26 hours failed calibration downtime). No exceedances.</p> |
| 09/29/2023 | ROP Semi 1 Cert | Compliance | Resubmitted - Amended version. No deviations reported. An error was found on the certification submitted 9/14/23, and the facility was contacted. The corrected ROP Semi 1 Certification was amended and re-submitted and received 9/28/23. No violation will be issued for the error found on the Certification. |
| 09/25/2023 | ROP Semi 1 Cert | | No deviations reported. An error was found on the certification and the facility was contacted. The corrected ROP Semi 1 Certification was amended and re-submitted and received 9/28/23. |
| 09/25/2023 | ROP Semi 1 Cert | Compliance | No deviations were reported. |

| Activity Date | Activity Type | Compliance Status | Comments |
|---------------|------------------------------------|-------------------|---|
| 05/09/2023 | Excess Emissions (CEM) | Compliance | First Quarter 2023: Quarterly Excess Opacity Emissions Report, per EUBOILER1.VII.6. Quarterly Excess Emission Monitoring System Performance Reports, per EUBOILER1.VII.4. Quarterly report of monthly average Sulfur Dioxide Emission Rate, per EUBOILER1.VII.7. |
| 05/05/2023 | Annual Emissions Report (or MAERS) | Compliance | MAERS Report Submission. Peakers. Report received ontime. Reported emissions appear to be accurate. |
| 03/30/2023 | Annual Emissions Report (or MAERS) | Compliance | MAERS ROP Report Certification form accompanying MAERS submittal. Report received on 3/13, on time. Boiler 1. |
| 03/30/2023 | Other Non ROP | Compliance | 2023 Outage Notification, Unit 1. Planned generating units outage for up to 3 months. Permit action not required since this is a scheduled maintenance activity and not a PSD modification. |
| 03/23/2023 | Excess Emissions (CEM) | Compliance | Fourth Quarter 2022: Quarterly Excess Opacity Emissions Report, per EUBOILER1.VII.6. Quarterly Excess Emission Monitoring System Performance Reports, per EUBOILER1.VII.4. Quarterly report of monthly average Sulfur Dioxide Emission Rate, per EUBOILER1.VII.7. Report indicates compliance, no reported hours of excess emissions. |
| 03/23/2023 | NSR Emissions Report | Compliance | Report indicates compliance. |
| 03/23/2023 | ROP Annual Cert | Compliance | Annual ROP Certification for Section 1 of the ROP. No deviations reported. Report indicates compliance. |
| 03/23/2023 | ROP SEMI 2 CERT | Compliance | Semi-Annual ROP Certification for Section 1 of the ROP. No deviations reported. Report indicates compliance. |
| 03/23/2023 | ROP Annual Cert | Compliance | Annual ROP Certification for Section 2 of the ROP. No deviations reported. Report indicates compliance. |
| 03/23/2023 | ROP SEMI 2 CERT | Compliance | Semi-Annual ROP Certification for Section 2 of the ROP. No deviations reported. Report indicates compliance. |

| Activity Date | Activity Type | Compliance Status | Comments |
|---------------|------------------------|-------------------|--|
| 12/07/2022 | Excess Emissions (CEM) | Compliance | Third Quarter 2022: Quarterly Excess Opacity Emissions Report, per EUBOILER1.VII.6. Quarterly Excess Emission Monitoring System Performance Reports, per EUBOILER1.VII.4. Quarterly report of monthly average Sulfur Dioxide Emission Rate, per EUBOILER1.VII.7. Reported Sulfur Dioxide Emission Rates: July 2022 - 0.00 lb. SO2/MMBtu August 2022 - 0.00 lb. SO2/MMBtu September 2022 - 0.00 lb. SO2/MMBtu |
| 09/28/2022 | Other Non ROP | Compliance | Changes in Responsible Officials to: Mark Chesney, Plant Manager, Fossil Generation, Greenwood Energy Center. Justin Morren, Plant Director, Fossil Generation, Greenwood Energy Center. Biljana Pecov, Plant Manager, Fossil Generation, Greenwood Peak. |
| 09/27/2022 | Excess Emissions (CEM) | Compliance | Second Quarter 2022: Quarterly Excess Opacity Emissions Report, per EUBOILER1.VII.6. Quarterly Excess Emission Monitoring System Performance Reports, per EUBOILER1.VII.4. Quarterly report of monthly average Sulfur Dioxide Emission Rate, per EUBOILER1.VII.7. Reported Sulfur Dioxide Emission Rates: April 2022 - 0.00 lb. SO2/MMBtu May 2022 - 0.00 lb. SO2/MMBtu June 2022 - 0.00 lb. SO2/MMBtu |
| 09/27/2022 | Stack Test | Compliance | Stack testing of particulate emissions from EUBoiler1 (Unit 1). Results: EUBOILER1: 0.001 lbs/1,000 lbs @50% EA Permit Limit: 0.10 lbs/1,000 lbs |
| 09/27/2022 | Stack Test | Compliance | Stack testing of NOx and CO for Combustion Turbine Generator Peak Units 11-1, 11-2, and 12-1. Results indicate compliance with permitted NOx and CO limits. |
| 09/27/2022 | ROP Semi 1 Cert | Compliance | Semi-annual ROP Certification for Section 2 of the ROP. No deviations reported. |

Name: Robert Joseph Date: 08-19-24

Supervisor:

