MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
AIR QUALITY DIVISION

EFFECTIVE DATE: June 1, 2024

ISSUED TO

DTE ELECTRIC COMPANY
ST. CLAIR POWER PLANT,
BELLE RIVER POWER PLANT, PEAKERS, AND
BLUE WATER ENERGY CENTER

State Registration Number (SRN) B2796

LOCATED AT

4505 King Road, China Township, St Clair County, Michigan 48054

RENEWABLE OPERATING PERMIT

Permit Number: MI-ROP-B2796-2024

Expiration Date: June 1, 2029

Administratively Complete ROP Renewal Application
Due Between December 1, 2027 and December 1, 2028

This Renewable Operating Permit (ROP) is issued in accordance with and subject to Section 5506(3) of Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451). Pursuant to Rule 210(1) of the administrative rules promulgated under Act 451, this ROP constitutes the permittee's authority to operate the stationary source identified above in accordance with the general conditions, special conditions and attachments contained herein. Operation of the stationary source and all emission units listed in the permit are subject to all applicable future or amended rules and regulations pursuant to Act 451 and the federal Clean Air Act.

SOURCE-WIDE PERMIT TO INSTALL

Permit Number: MI-PTI-B2796-2024

This Permit to Install (PTI) is issued in accordance with and subject to Section 5505(1) of Act 451. Pursuant to Rule 214a of the administrative rules promulgated under Act 451, the terms and conditions herein, identified by the underlying applicable requirement citation of Rule 201(1)(a), constitute a federally enforceable PTI. The PTI terms and conditions do not expire and remain in effect unless the criteria of Rule 201(6) are met. Operation of all emission units identified in the PTI is subject to all applicable future or amended rules and regulations pursuant to Act 451 and the federal Clean Air Act.

Michigan Department of Environment, Great Lakes, and Energy

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Joyce Zhu, Warren District Supervisor

TABLE OF CONTENTS

AUTHORITY AND ENFORCEABILITY

For the purpose of this permit, the **permittee** is defined as any person who owns or operates an emission unit at a stationary source for which this permit has been issued. The **department** is defined in Rule 104(d) as the Director of the Michigan Department of Environment, Great Lakes, and Energy (EGLE) or his or her designee.

The permittee shall comply with all specific details in the permit terms and conditions and the cited underlying applicable requirements. All terms and conditions in this ROP are both federally enforceable and state enforceable unless otherwise footnoted. Certain terms and conditions are applicable to most stationary sources for which an ROP has been issued. These general conditions are included in Part A of this ROP. Other terms and conditions may apply to a specific emission unit, several emission units which are represented as a flexible group, or the entire stationary source which is represented as a Source-Wide group. Special conditions are identified in Parts B, C, D and/or the appendices.

In accordance with Rule 213(2)(a), all underlying applicable requirements are identified for each ROP term or condition. All terms and conditions that are included in a PTI are streamlined, subsumed and/or is state-only enforceable will be noted as such.

In accordance with Section 5507 of Act 451, the permittee has included in the ROP application a compliance certification, a schedule of compliance, and a compliance plan. For applicable requirements with which the source is in compliance, the source will continue to comply with these requirements. For applicable requirements with which the source is not in compliance, the source will comply with the detailed schedule of compliance requirements that are incorporated as an appendix in this ROP. Furthermore, for any applicable requirements effective after the date of issuance of this ROP, the stationary source will meet the requirements on a timely basis, unless the underlying applicable requirement requires a more detailed schedule of compliance.

Issuance of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.

This permit does not relieve the permittee from any responsibilities or obligations imposed on the permittee, at the source under Consent Decree U.S. v. DTE Energy and Detroit Edison Company, Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, 2020, entered in 2020 between the USEPA and the permittee.

SECTION 1 – BELLE RIVER POWER PLANT

A. GENERAL CONDITIONS

Permit Enforceability

- All conditions in this permit are both federally enforceable and state enforceable unless otherwise noted. **(R 336.1213(5))**

- Those conditions that are hereby incorporated in a state-only enforceable Source-Wide PTI pursuant to Rule 201(2)(d) are designated by footnote one. **(R 336.1213(5)(a), R 336.1214a(5))**

- Those conditions that are hereby incorporated in a federally enforceable Source-Wide PTI pursuant to Rule 201(2)(c) are designated by footnote two. **(R 336.1213(5)(b), R 336.1214a(3))**

General Provisions

1. The permittee shall comply with all conditions of this ROP. Any ROP noncompliance constitutes a violation of Act 451, and is grounds for enforcement action, for ROP revocation or revision, or for denial of the renewal of the ROP. All terms and conditions of this ROP that are designated as federally enforceable are enforceable by the Administrator of the United States Environmental Protection Agency (USEPA) and by citizens under the provisions of the federal Clean Air Act (CAA). Any terms and conditions based on applicable requirements which are designated as "state-only" are not enforceable by the USEPA or citizens pursuant to the CAA. **(R 336.1213(1)(a))**

2. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this ROP. **(R 336.1213(1)(b))**

3. This ROP may be modified, revised, or revoked for cause. The filing of a request by the permittee for a permit modification, revision, or termination, or a notification of planned changes or anticipated noncompliance does not stay any ROP term or condition. This does not supersede or affect the ability of the permittee to make changes, at the permittee's own risk, pursuant to Rule 215 and Rule 216. **(R 336.1213(1)(c))**

4. The permittee shall allow the department, or an authorized representative of the department, upon presentation of credentials and other documents as may be required by law and upon stating the authority for and purpose of the investigation, to perform any of the following activities: **(R 336.1213(1)(d))**
   a. Enter, at reasonable times, a stationary source or other premises where emissions-related activity is conducted or where records must be kept under the conditions of the ROP.
   b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the ROP.
   c. Inspect, at reasonable times, any of the following:
      i. Any stationary source.
      ii. Any emission unit.
      iii. Any equipment, including monitoring and air pollution control equipment.
      iv. Any work practices or operations regulated or required under the ROP.
   d. As authorized by Section 5526 of Act 451, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the ROP or applicable requirements.

5. The permittee shall furnish to the department, within a reasonable time, any information the department may request, in writing, to determine whether cause exists for modifying, revising, or revoking the ROP or to determine compliance with this ROP. Upon request, the permittee shall also furnish to the department copies of any records that are required to be kept as a term or condition of this ROP. For information which is claimed by the permittee to be confidential, consistent with the requirements of the 1976 PA 442, MCL §15.231 et seq., and known as the Freedom of Information Act, the person may also be required to furnish the records directly to the USEPA together with a claim of confidentiality. **(R 336.1213(1)(e))**

6. A challenge by any person, the Administrator of the USEPA, or the department to a particular condition or a part of this ROP shall not set aside, delay, stay, or in any way affect the applicability or enforceability of any other condition or part of this ROP. **(R 336.1213(1)(f))**

7. The permittee shall pay fees consistent with the fee schedule and requirements pursuant to Section 5522 of Act 451. **(R 336.1213(1)(g))**

8. This ROP does not convey any property rights or any exclusive privilege. **(R 336.1213(1)(h))**

Equipment & Design

9. Any collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2).[2] **(R 336.1370)**

10. Any air cleaning device shall be installed, maintained, and operated in a satisfactory manner and in accordance with the Michigan Air Pollution Control rules and existing law. **(R 336.1910)**

Emission Limits

11. Unless otherwise specified in this ROP, the permittee shall comply with Rule 301, which states, in part, "Except as provided in Subrules 2, 3, and 4 of this rule, a person shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of a density greater than the most stringent of the following:"[2] **(R 336.1301(1))**
    a. A 6-minute average of 20% opacity, except for one 6-minute average per hour of not more than 27% opacity.
    b. A limit specified by an applicable federal new source performance standard.

    The grading of visible emissions shall be determined in accordance with Rule 303.

12. The permittee shall not cause or permit the emission of an air contaminant or water vapor in quantities that cause, alone or in reaction with other air contaminants, either of the following:
    a. Injurious effects to human health or safety, animal life, plant life of significant economic value, or property.[1] **(R 336.1901(a))**
    b. Unreasonable interference with the comfortable enjoyment of life and property.[1] **(R 336.1901(b))**

Testing/Sampling

13. The department may require the owner or operator of any source of an air contaminant to conduct acceptable performance tests, at the owner's or operator's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001(1).[2] **(R 336.2001)**

14. Any required performance testing shall be conducted in accordance with Rule 1001(2), Rule 1001(3) and Rule 1003. **(R 336.2001(2), R 336.2001(3), R 336.2003(1))**

15. Any required test results shall be submitted to the Air Quality Division (AQD) in the format prescribed by the applicable reference test method within 60 days following the last date of the test. **(R 336.2001(5))**

Monitoring/Recordkeeping

16. Records of any periodic emission or parametric monitoring required in this ROP shall include the following information specified in Rule 213(3)(b)(i), where appropriate. **(R 336.1213(3)(b))**
    a. The date, location, time, and method of sampling or measurements.
    b. The dates the analyses of the samples were performed.
    c. The company or entity that performed the analyses of the samples.
    d. The analytical techniques or methods used.
    e. The results of the analyses.
    f. The related process operating conditions or parameters that existed at the time of sampling or measurement.

17. All required monitoring data, support information and all reports, including reports of all instances of deviation from permit requirements, shall be kept and furnished to the department upon request for a period of not less than 5 years from the date of the monitoring sample, measurement, report or application. Support information includes all calibration and maintenance records and all original strip-chart recordings, or other original data records, for continuous monitoring instrumentation and copies of all reports required by the ROP. **(R 336.1213(1)(e), R 336.1213(3)(b)(ii))**

Certification & Reporting

18. Except for the alternate certification schedule provided in Rule 213(3)(c)(iii)(B), any document required to be submitted to the department as a term or condition of this ROP shall contain an original certification by a Responsible Official which state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. **(R 336.1213(3)(c))**

19. A Responsible Official shall certify to the appropriate AQD District Office and to the USEPA that the stationary source is and has been in compliance with all terms and conditions contained in the ROP except for deviations that have been or are being reported to the appropriate AQD District Office pursuant to Rule 213(3)(c). This certification shall include all the information specified in Rule 213(4)(c)(i) through (v) and shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the certification are true, accurate, and complete. The annual compliance certification (pursuant to Rule 213(4)(c)) shall be submitted to the USEPA through the USEPA's Central Data Exchange (CDX) using the Compliance and Emissions Data Reporting Interface (CEDRI), which can be accessed through CDX (https://cdx.epa.gov/), unless it contains confidential business information then use the following address: USEPA, Air Compliance Data - Michigan, Air and Radiation Division, 77 West Jackson Boulevard, Chicago, Illinois 60604-3507. **(R 336.1213(4)(c))**

20. The certification of compliance shall be submitted annually for the term of this ROP as detailed in the special conditions, or more frequently if specified in an applicable requirement or in this ROP. **(R 336.1213(4)(c))**

21. The permittee shall promptly report any deviations from ROP requirements and certify the reports. The prompt reporting of deviations from ROP requirements is defined in Rule 213(3)(c)(ii) as follows, unless otherwise described in this ROP. **(R 336.1213(3)(c))**
    a. For deviations that exceed the emissions allowed under the ROP, prompt reporting means reporting consistent with the requirements of Rule 912 as detailed in Condition 25. All reports submitted pursuant to this paragraph shall be promptly certified as specified in Rule 213(3)(c)(iii).
    b. For deviations which exceed the emissions allowed under the ROP and which are not reported pursuant to Rule 912 due to the duration of the deviation, prompt reporting means the reporting of all deviations in the semiannual reports required by Rule 213(3)(c)(i). The report shall describe reasons for each deviation and the actions taken to minimize or correct each deviation.
    c. For deviations that do not exceed the emissions allowed under the ROP, prompt reporting means the reporting of all deviations in the semiannual reports required by Rule 213(3)(c)(i). The report shall describe the reasons for each deviation and the actions taken to minimize or correct each deviation.

22. For reports required pursuant to Rule 213(3)(c)(ii), prompt certification of the reports is described in Rule 213(3)(c)(iii) as either of the following: **(R 336.1213(3)(c))**
    a. Submitting a certification by a Responsible Official with each report which states that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
    b. Submitting, within 30 days following the end of a calendar month during which one or more prompt reports of deviations from the emissions allowed under the ROP were submitted to the department pursuant to Rule 213(3)(c)(ii), a certification by a Responsible Official which states that; "based on information and belief formed after reasonable inquiry, the statements and information contained in each of the reports submitted during the previous month were true, accurate, and complete." The certification shall include a listing of the reports that are being certified. Any report submitted pursuant to Rule 213(3)(c)(ii) that will be certified on a monthly basis pursuant to this paragraph shall include a statement that certification of the report will be provided within 30 days following the end of the calendar month.

23. Semiannually for the term of the ROP as detailed in the special conditions, or more frequently if specified, the permittee shall submit certified reports of any required monitoring to the appropriate AQD District Office. All instances of deviations from ROP requirements during the reporting period shall be clearly identified in the reports. **(R 336.1213(3)(c)(i))**

24. On an annual basis, the permittee shall report the actual emissions, or the information necessary to determine the actual emissions, of each regulated air pollutant as defined in Rule 212(6) for each emission unit utilizing the emissions inventory forms provided by the department. **(R 336.1212(6))**

25. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the appropriate AQD District Office. The notice shall be provided not later than two business days after the start-up, shutdown, or discovery of the abnormal conditions or malfunction. Notice shall be by any reasonable means, including electronic, telephonic, or oral communication. Written reports, if required under Rule 912, must be submitted to the appropriate AQD District Supervisor within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal conditions or malfunction has been corrected, or within 30 days of discovery of the abnormal conditions or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5) and shall be certified by a Responsible Official in a manner consistent with the CAA.[2] **(R 336.1912)**

Permit Shield

26. Compliance with the conditions of the ROP shall be considered compliance with any applicable requirements as of the date of ROP issuance if either of the following provisions is satisfied. **(R 336.1213(6)(a)(i), R 336.1213(6)(a)(ii))**
    a. The applicable requirements are included and are specifically identified in the ROP.
    b. The permit includes a determination or concise summary of the determination by the department that other specifically identified requirements are not applicable to the stationary source.

    Any requirements identified in Part E of this ROP have been identified as non-applicable to this ROP and are included in the permit shield.

27. Nothing in this ROP shall alter or affect any of the following:
    a. The provisions of Section 303 of the CAA, emergency orders, including the authority of the USEPA under Section 303 of the CAA. **(R 336.1213(6)(b)(i))**
    b. The liability of the owner or operator of this source for any violation of applicable requirements prior to or at the time of this ROP issuance. **(R 336.1213(6)(b)(ii))**
    c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the CAA. **(R 336.1213(6)(b)(iii))**

d. The ability of the USEPA to obtain information from a source pursuant to Section 114 of the CAA. **(R 336.1213(6)(b)(iv))**

28. The permit shield shall not apply to provisions incorporated into this ROP through procedures for any of the following:
    a. Operational flexibility changes made pursuant to Rule 215. **(R 336.1215(5))**
    b. Administrative Amendments made pursuant to Rule 216(1)(a)(i)-(iv). **(R 336.1216(1)(b)(iii))**
    c. Administrative Amendments made pursuant to Rule 216(1)(a)(v) until the amendment has been approved by the department. **(R 336.1216(1)(c)(iii))**
    d. Minor Permit Modifications made pursuant to Rule 216(2). **(R 336.1216(2)(f))**
    e. State-Only Modifications made pursuant to Rule 216(4) until the changes have been approved by the department. **(R 336.1216(4)(e))**

29. Expiration of this ROP results in the loss of the permit shield. If a timely and administratively complete application for renewal is submitted not more than 18 months, but not less than 6 months, before the expiration date of the ROP, but the department fails to take final action before the end of the ROP term, the existing ROP does not expire until the renewal is issued or denied, and the permit shield shall extend beyond the original ROP term until the department takes final action. **(R 336.1217(1)(c), R 336.1217(1)(a))**

Revisions

30. For changes to any process or process equipment covered by this ROP that do not require a revision of the ROP pursuant to Rule 216, the permittee must comply with Rule 215. **(R 336.1215, R 336.1216)**

31. A change in ownership or operational control of a stationary source covered by this ROP shall be made pursuant to Rule 216(1). **(R 336.1219(2))**

32. For revisions to this ROP, an administratively complete application shall be considered timely if it is received by the department in accordance with the time frames specified in Rule 216. **(R 336.1210(10))**

33. Pursuant to Rule 216(1)(b)(iii), Rule 216(2)(d) and Rule 216(4)(d), after a change has been made, and until the department takes final action, the permittee shall comply with both the applicable requirements governing the change and the ROP terms and conditions proposed in the application for the modification. During this time period, the permittee may choose to not comply with the existing ROP terms and conditions that the application seeks to change. However, if the permittee fails to comply with the ROP terms and conditions proposed in the application during this time period, the terms and conditions in the ROP are enforceable. **(R 336.1216(1)(c)(iii), R 336.1216(2)(d), R 336.1216(4)(d))**

Reopenings

34. A ROP shall be reopened by the department prior to the expiration date and revised by the department under any of the following circumstances:
    a. If additional requirements become applicable to this stationary source with three or more years remaining in the term of the ROP, but not if the effective date of the new applicable requirement is later than the ROP expiration date. **(R 336.1217(2)(a)(i))**
    b. If additional requirements pursuant to Title IV of the CAA become applicable to this stationary source. **(R 336.1217(2)(a)(ii))**
    c. If the department determines that the ROP contains a material mistake, information required by any applicable requirement was omitted, or inaccurate statements were made in establishing emission limits or the terms or conditions of the ROP. **(R 336.1217(2)(a)(iii))**
    d. If the department determines that the ROP must be revised to ensure compliance with the applicable requirements. **(R 336.1217(2)(a)(iv))**

Renewals

35. For renewal of this ROP, an administratively complete application shall be considered timely if it is received by the department not more than 18 months, but not less than 6 months, before the expiration date of the ROP. **(R 336.1210(9))**

Stratospheric Ozone Protection

36. If the permittee is subject to Title 40 of the Code of Federal Regulations (CFR), Part 82 and services, maintains, or repairs appliances except for motor vehicle air conditioners (MVAC), or disposes of appliances containing refrigerant, including MVAC and small appliances, or if the permittee is a refrigerant reclaimer, appliance owner or a manufacturer of appliances or recycling and recovery equipment, the permittee shall comply with all applicable standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F.

37. If the permittee is subject to 40 CFR Part 82 and performs a service on motor (fleet) vehicles when this service involves refrigerant in the MVAC, the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term “motor vehicle” as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed by the original equipment manufacturer. The term MVAC as used in Subpart B does not include the air-tight sealed refrigeration system used for refrigerated cargo or an air conditioning system on passenger buses using Hydrochlorofluorocarbon-22 refrigerant.

Risk Management Plan

38. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall register and submit to the USEPA the required data related to the risk management plan for reducing the probability of accidental releases of any regulated substances listed pursuant to Section 112(r)(3) of the CAA as amended in 40 CFR 68.130. The list of substances, threshold quantities, and accident prevention regulations promulgated under 40 CFR Part 68, do not limit in any way the general duty provisions under Section 112(r)(1).

39. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall comply with the requirements of 40 CFR Part 68, no later than the latest of the following dates as provided in 40 CFR 68.10(a):
    a. June 21, 1999,
    b. Three years after the date on which a regulated substance is first listed under 40 CFR 68.130, or
    c. The date on which a regulated substance is first present above a threshold quantity in a process.

40. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall submit any additional relevant information requested by any regulatory agency necessary to ensure compliance with the requirements of 40 CFR Part 68.

41. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall annually certify compliance with all applicable requirements of Section 112(r) as detailed in Rule 213(4)(c)). **(40 CFR Part 68)**

Emission Trading

42. Emission averaging and emission reduction credit trading are allowed pursuant to any applicable interstate or regional emission trading program that has been approved by the Administrator of the USEPA as a part of Michigan’s State Implementation Plan. Such activities must comply with Rule 215 and Rule 216. **(R 336.1213(12))**

Permit to Install (PTI)

43. The process or process equipment included in this permit shall not be reconstructed, relocated, or modified unless a PTI authorizing such action is issued by the department, except to the extent such action is exempt from the PTI requirements by any applicable rule.[2] **(R 336.1201(1))**

44. The department may, after notice and opportunity for a hearing, revoke PTI terms or conditions if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of the PTI or is violating the department's rules or the CAA.[2] **(R 336.1201(8), Section 5510 of Act 451)**

45. The terms and conditions of a PTI shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by the PTI. If a new owner or operator submits a written request to the department pursuant to Rule 219 and the department approves the request, this PTI will be amended to reflect the change of ownership or operational control. The request must include all of the information required by Subrules (1)(a), (b) and (c) of Rule 219. The written request shall be sent to the appropriate AQD District Supervisor, EGLE.[2] **(R 336.1219)**

46. If the installation, reconstruction, relocation, or modification of the equipment for which PTI terms and conditions have been approved has not commenced within 18 months of the original PTI issuance date, or has been interrupted for 18 months, the applicable terms and conditions from that PTI, as incorporated into the ROP, shall become void unless otherwise authorized by the department. Furthermore, the person to whom that PTI was issued, or the designated authorized agent, shall notify the department via the Supervisor, Permit Section, EGLE, AQD, P. O. Box 30260, Lansing, Michigan 48909, if it is decided not to pursue the installation, reconstruction, relocation, or modification of the equipment allowed by the terms and conditions from that PTI.[2] **(R 336.1201(4))**

Footnotes:
[1]This condition is state-only enforceable and was established pursuant to Rule 201(1)(b).
[2]This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

B. SOURCE-WIDE CONDITIONS

Part B outlines the Source-Wide Terms and Conditions that apply to this stationary source. The permittee is subject to these special conditions for the stationary source in addition to the general conditions in Part A and any other terms and conditions contained in this ROP.

The permittee shall comply with all specific details in the special conditions and the underlying applicable requirements cited. If a specific condition type does not apply to this source, NA (not applicable) has been used in the table. If there are no Source-Wide Conditions, this section will be left blank.

C. EMISSION UNIT SPECIAL CONDITIONS

Part C outlines terms and conditions that are specific to individual emission units listed in the Emission Unit Summary Table. The permittee is subject to the special conditions for each emission unit in addition to the General Conditions in Part A and any other terms and conditions contained in this ROP.

The permittee shall comply with all specific details in the special conditions and the underlying applicable requirements cited. If a specific condition type does not apply, NA (not applicable) has been used in the table. If there are no conditions specific to individual emission units, this section will be left blank.

EMISSION UNIT SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-BOILER1-BR	Belle River Power Plant Boiler No. 1., 697 MW nominally rated, dry bottom coal-fired boiler equipped with low NOx burners, over-fire air, dry cold-side ESP, DSI, and ACI.	03-01-1984/ 09-05-2008/ 07-25-2014	FG-BOILERS-BR FG-MATS-BR
EU-BOILER2-BR	Belle River Power Plant Boiler No. 2., 697 MW nominally rated, dry bottom coal-fired boiler equipped with low NOx burners, over-fire air, dry cold-side ESP, DSI, and ACI.	01-01-1984/ 02-01-2002/ 12-29-2009/ 07-25-2014	FG-BOILERS-BR FG-MATS-BR
EU-NAUXBLR-BR	Belle River Power Plant North Auxiliary Boiler. 205 MMBTU heat input boiler, fired by diesel.	01-01-1984	FG-AUXBLRS-BR
EU-SAUXBLR-BR	Belle River Power Plant South Auxiliary Boiler. 205 MMBTU heat input boiler, fired by diesel.	01-01-1984	FG-AUXBLRS-BR
EU-ASHSILO#1-BR	Belle River Power Plant Flyash handling activity in Flyash Silo #1 where emissions are limited by enclosures, water sprays, and direct venting into ESP's.	01-01-1984	FG-ASH_HAND-BR
EU-ASHSILO#2-BR	Belle River Power Plant Flyash handling activity in Flyash Silo #2 where emissions are limited by enclosures, water sprays, and direct venting into ESP's.	01-01-1984	FG-ASH_HAND-BR
EU-TRANSFER_HS-SC	Coal handling activity in the transfer houses, where emissions are limited by enclosures, sprays, wet dust extraction units, or dust collectors.	06-30-1997	FG-COALHAND-SC
EU- CRUSHER_HS-SC	Coal handling activity in the crusher house, where emissions are limited by enclosures, sprays, or pollution control device.	06-19-1987/ 06-30-1997	FG-COALHAND-SC
EU- TRANS_HS-BR	Belle River Power Plant Coal handling activity in Transfer Houses, where emissions are limited by enclosures, sprays, wet ash extraction units, or baghouse dust collectors.	10-17-1978	FG- COALHAND-BR
EU-COALSILOS-BR	Belle River Power Plant Coal handling activity in Unit 1 & 2 Coal silos, where emissions are limited by enclosures, sprays, wet ash extraction units, or baghouse dust collectors.	10-17-1978	FG-COALHAND-BR

Section 1 Belle River Power Plant

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-CASCADES-BR	Belle River Power Plant Coal handling activity in Cascade Rooms, where emissions are limited by enclosures, sprays, wet ash extraction units, or baghouse dust collectors.	10-17-1978	FG-COALHAND-BR
EU-PARTSCLN-SC	Cold solvent parts cleaners located at St. Clair Power Plant.	09-30-1996	FG-COLDCLNRS-BR
EU-PARTSCLN-BR	Belle River Power Plant cold solvent parts cleaners located at Belle River Power Plant.	08-01-1984	FG-COLDCLNRS-BR
EU-FIREPUMP-SC	St. Clair Power Plant 315 HP emergency diesel fire pump engine in #2 Screenhouse. PTI exempt per Rule 285(2)(g). Subject to 40 CFR Part 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), located at a major source of HAP emissions, existing emergency, compression ignition (CI) RICE equal to or less than 500 brake hp. A RICE is existing if the date of installation is before June 12, 2006.	06-12-1995	FG-FIREPUMPS-BR
EU-FIREPUMP-BR	Belle River Power Plant 280 HP, emergency diesel engine for Fire Pump House. PTI exempt per Rule 285(2)(g). Subject to 40 CFR Part 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), located at a major source of HAP emissions, existing emergency, compression ignition (CI) RICE equal to or less than 500 brake hp. A RICE is existing if the date of installation is before June 12, 2006.	1984	FG-FIREPUMPS-BR
EU-BLR01-DSI_SILO1-BR	Belle River Power Plant DSI sorbent delivered by enclosed tanker truck or railcar tanker and conveyed pneumatically to the storage silo. The load-in conveying air discharges through a high efficiency bin vent filter or dust collector on the Belle River Unit 1 DSI Silo 1.	07-25-2014	FG-ISLANDS-BR
EU-BLR01-DSI_SILO2-BR	Belle River Power Plant DSI sorbent delivered by enclosed tanker truck or railcar tanker and conveyed pneumatically to the storage silo. The load-in conveying air discharges through a high efficiency bin vent filter or dust collector on the Belle River Unit 1 DSI Silo 2.	07-25-2014	FG-ISLANDS-BR
EU-BLR02-DSI_SILO1-BR	Belle River Power Plant DSI sorbent delivered by enclosed tanker truck or railcar tanker and conveyed pneumatically to the storage silo. The load-in conveying air discharges through a high efficiency bin vent filter or dust collector on the Belle River Unit 2 DSI Silo 1.	07-25-2014	FG-ISLANDS-BR

Section 1 Belle River Power Plant

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-BLR02-DSI_SILO2-BR	Belle River Power Plant DSI sorbent delivered by enclosed tanker truck or railcar tanker and conveyed pneumatically to the storage silo. The load-in conveying air discharges through a high efficiency bin vent filter or dust collector on the Belle River Unit 2 DSI Silo 2.	07-25-2014	FG-ISLANDS-BR
EU-BLR01-ACI_SILO-BR	Belle River Power Plant ACI sorbent delivered by enclosed dry bulk semi-trailer trucks and conveyed pneumatically to the storage silo. The load-in conveying air discharges through a high efficiency bin vent filter or dust collector on the Belle River Unit 1 ACI Silo.	07-25-2014	FG-ISLANDS-BR
EU-BLR02-ACI_SILO-BR	Belle River Power Plant ACI sorbent delivered by enclosed dry bulk semi-trailer trucks and conveyed pneumatically to the storage silo. The load-in conveying air discharges through a high efficiency bin vent filter or dust collector on the Belle River Unit 2 ACI Silo.	07-25-2014	FG-ISLANDS-BR

D. FLEXIBLE GROUP SPECIAL CONDITIONS

Part D outlines the terms and conditions that apply to more than one emission unit. The permittee is subject to the special conditions for each flexible group in addition to the General Conditions in Part A and any other terms and conditions contained in this ROP.

The permittee shall comply with all specific details in the special conditions and the underlying applicable requirements cited. If a specific condition type does not apply, NA (not applicable) has been used in the table. If there are no special conditions that apply to more than one emission unit, this section will be left blank.

FLEXIBLE GROUP SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-BOILERS-BR	Applicable requirements associated with Belle River Power Plant Boiler Nos. 1 and 2.	EU-BOILER1-BR EU-BOILER2-BR
FG-AUXBLRS-BR	Applicable requirements associated with the Belle River Power Plant North and South Auxiliary Boilers, which are subject to 40 CFR Part 63, Subpart DDDDD as limited use boilers.	EU-NAUXBLR-BR EU-SAUXBLR-BR
FG-ASH_HAND-BR	Emission units representing flyash collection and handling at Belle River Power Plant, including the flyash load-out facilities.	EU-ASHSILO#1-BR EU-ASHSILO#2-BR
FG-COALHAND-SC	Emission Units representing coal handling for conveyors from St. Clair River to Belle River Power Plant. Includes transfer houses, crusher house and coal storage piles.	EU-TRANSFER_HS-SC EU-CRUSHER_HS-SC
FG-COALHAND-BR	Emission units representing coal handling at Belle River Power Plant.	EU-TRANS_HS-BR EU-COALSILOS-BR EU-CASCADES-BR
FG-FIREPUMPS-BR	**40 CFR Part 63, Subpart ZZZZ** - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), located at a major source of HAP emissions, existing emergency, compression ignition (CI) RICE equal to or less than 500 brake hp. A RICE is existing if the date of installation is before June 12, 2006. There is no time limit on the use of emergency stationary RICE in emergency situations per 40 CFR 63.6640(f)(1).	EU-FIREPUMP-SC EU-FIREPUMP-BR
FG-COLDCLNRS-BR	Any cold cleaner at Belle River Power Plant that is grandfathered or exempt from Rule 201 pursuant to Rule 281(2)(h) or Rule 285(2)(r)(iv).	EU-PARTSCLN-SC EU-PARTSCLN-BR

Section 1 Belle River Power Plant

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-MATS-BR	Installation of dry sorbent injection (DSI) and activated carbon injection (ACI) systems on Belle River Power Plant Boiler Nos. 1 and 2. 40 CFR Part 63, Subpart UUUUU (Mercury and Air Toxics Standards or MATS) requirements for existing coal-fired electric utility steam generating unit(s) (EGU) rated more than 25 megawatts electric (MWe) that serve(s) a generator producing electricity for sale and designed to burn coal that is not low rank virgin coal (calorific value of ≥ 8,300 BTU/pound).	EU-BOILER1-BR EU-BOILER2-BR
FG-ISLANDS-BR	Belle River DSI and ACI sorbents delivered and conveyed pneumatically to the appropriate storage silo. The load-in conveying air discharges through a high efficiency bin vent filter or dust collector on each silo.	EU-BLR01-DSI_SILO1-BR EU-BLR01-DSI_SILO2-BR EU-BLR02-DSI_SILO1-BR EU-BLR02-DSI_SILO2-BR EU-BLR01-ACI_SILO-BR EU-BLR02-ACI_SILO-BR

FG-BOILERS-BR
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Applicable requirements associated with Belle River Power Plant Boiler Nos. 1 and 2.

Emission Units: EU-BOILER1-BR, EU-BOILER2-BR

POLLUTION CONTROL EQUIPMENT

Electrostatic Precipitators, Low-NOx burners, overfired air, DSI (Dry Sorbent Injection) and ACI (Activated Carbon Injection)

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Particulate Matter (PM)	0.10 pound per MMBTU heat input[2]	Hourly	EU-BOILER1-BR EU-BOILER2-BR	SC V.1	**40 CFR Part 60, Subpart D 40 CFR 60.42(a)(1)**
2. Particulate Matter (PM)	0.030 lb/MMBTU[2,3,4]	24-hr rolling average for all periods of operation excluding periods of Startup[c,2,3,4]	EU-BOILER1-BR EU-BOILER2-BR	SC VI.8 & VI.9	**Act 451, Section 324.5503(b); Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 24**
3. Visible Emissions	20% opacity[2, a]	6-minute average	EU-BOILER1-BR EU-BOILER2-BR	SC VI.3	**40 CFR Part 60, Subpart D 40 CFR 60.42a(2)**
4. SO_2	1.2 pounds per MMBTU[2, b]	Based upon any 3-hour average	EU-BOILER1-BR EU-BOILER2-BR	SC VI.1	**40 CFR Part 60, Subpart D 40 CFR 60.43a(2)**
5. SO_2	0.680 lb/MMBTU[2,3,4]	30-day Rolling Average Emission Rate[2,3,4]	EU-BOILER1-BR EU-BOILER2-BR	SC VI.10	**Act 451, Section 324.5503(b); Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 9**
6. NO_X	0.70 pound per MMBTU[2, b]	Based upon any 3-hour average	EU-BOILER1-BR EU-BOILER2-BR	SC VI.2	**40 CFR Part 60, Subpart D 40 CFR 60.44a(3)**
7. NO_X	0.290 lb/MMBTU[2,3,4]	30-day Rolling Average Emission Rate[2,3,4]	EU-BOILER1-BR EU-BOILER2-BR	SC VI.10	**Act 451, Section 324.5503(b); Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 9**

[a] Except for one 6-minute period per hour of not more than 27%.[2]

[b] Excess emissions for SO_2 and NO_X are defined as any three-hour period during which the average emissions (arithmetic average of three contiguous one-hour periods, as measured by the continuous monitoring system) exceed the emission limit.[2] **(40 CFR 60.45(g)(2) & (3))**

[c] Excludes periods of startup as defined in 40 CFR 63.10042[2,3,4] **(Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 24)**

8. The permittee shall comply with the System-Wide Annual NO_X and SO_2 Tonnage Limitation specified in Appendix 11-1 BR.1. Emissions from EU-BOILER1-BR and EU-BOILER2-BR shall be counted toward the system-wide total emissions.[2,3,4] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 11)**

9. The permittee shall comply with the SO_2 and NO_X use & surrender allowance and super-compliance allowance provisions listed in Appendix 11-1 BR.2: Allowance Provisions.[2,3,4] **(R 336.1201; Act 451, Section 324.5503(b); Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 14-22)**

See Appendices 11-1 BR.1 & 11-1 BR.2

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The electrostatic precipitators shall be installed and operated in a satisfactory manner.[2] **(R 336.1910)**

2. The permittee shall maintain and operate EU-BOILER1-BR in a satisfactory manner using efficient combustion practices. Satisfactory operation includes operating EU-BOILER1-BR according to the procedures outlined in the Malfunction Abatement Plan (MAP) and the Carbon Monoxide (CO) Minimization Protocol.[2] **(R 336.1910, R 336.1911, R 336.2804, R 336.2810(3), 40 CFR 52.21(d) and (j))**

3. The permittee shall maintain and implement the approved MAP for FG-BOILERS-BR and the electrostatic precipitators. Alternate formats or revisions to the approved Program must be approved by the AQD District Supervisor. If the Plan inadequately addresses an event, the permittee shall revise the Plan within 45 days of such an event and submit the revised Plan for approval of AQD District Supervisor. The alternate plan shall be deemed approved unless notified by the District Supervisor within 45 days of plan submittal.[2] **(R 336.1201(3))**

4. The permittee shall use and implement and maintain the AQD approved Carbon Monoxide Minimization Protocol describing reasonable measures to minimize carbon monoxide emissions. Alternate formats or revisions to the approved protocol must be approved by AQD District Supervisor. The alternate plan shall be deemed approved unless notified by the District Supervisor within 45 days of plan submittal.[2] **(R 336.2804, R 336.2810(3), 40 CFR 52.21(d) & (j))**

5. The permittee shall continuously operate each PM Control Device for each boiler in FG-BOILERS-BR and use good air pollution control practices to maximize PM emission reductions at all times when the associated boiler is in operation. The permittee shall meet the requirements of Appendix 3-1 BR-5 to optimize ESP operation.[2,3,4] **(R 336.1201; Act 451, Section 324.5503(b); Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 23)**

6. The permittee shall continuously operate the Low NO_X Combustion System (including Overfire Air) for each boiler in FG-BOILERS-BR at all times when the associated boiler is in operation.[2,3,4] **(R 336.1201; Act 451, Section 324.5503(b); Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 10)**

See Appendix 3-1 BR

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EU-BOILER1-BR unless the upgraded low-NO_X burner system is installed, maintained, and operated in a satisfactory manner.[2] **(R 336.1910)**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. Once every three years or more frequently upon the request of the AQD District Supervisor, the permittee shall verify and quantify particulate matter (PM) emission rates from EU-BOILER1-BR and EU-BOILER2-BR by testing at owner's expense in accordance with EGLE requirements.[2] **(R 336.1201(3))**

2. Annually, the permittee shall verify and quantify carbon monoxide (CO) emission rates from EU-BOILER1-BR by testing at owner's expense in accordance with EGLE requirements. Testing must be completed at maximum and an intermediate load. Combustion parameters shall be monitored and recorded during test to determine efficient combustion practices.[2] **(R 336.2804, R 336.2810(3), 40 CFR 52.21(d) & (j))**

3. The permittee shall submit a complete test protocol to the AQD for approval at least 30 days prior to the anticipated test date. AQD must approve the final plan prior to testing. The permittee shall notify the AQD no less than 7 days prior to the anticipated test date. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test.[2] **(R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2804, R 336.2810(3), 40 CFR 52.21(d) & (j))**

4. The permittee shall verify particulate matter (PM) from EU-BOILER1-BR and EU-BOILER2-BR and carbon monoxide (CO) emission rates from EU-BOILER1-BR by testing at owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in:

Pollutant	Test Method Reference
PM	40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules
CO	40 CFR Part 60, Appendix A

An alternate method, or a modification to the approved USEPA Method, may be specified in an AQD-approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall install, calibrate, maintain, and operate in a satisfactory manner a device to monitor and record the SO_2 emissions on a continuous basis and in accordance with the Emission and Fuel Monitoring section of 40 CFR Part 60 and/or 40 CFR Part 75. See Appendix 3-1 BR.1 and 3-1 BR.2.[2] **(40 CFR Part 60, Subpart D; 40 CFR Part 60; 40 CFR Part 75, Appendix B)**

2. The permittee shall install, calibrate, maintain, and operate in a satisfactory manner a device to monitor and record the gas flow, CO_2, and NO_X emissions on a continuous basis and in accordance with the Emission and Fuel Monitoring section of 40 CFR Part 60 and/or 40 CFR Part 75. See Appendix 3-1 BR.2.[2] **(40 CFR Part 60, Subpart D; 40 CFR Part 60; 40 CFR Part 75, Appendix B)**

3. The permittee shall install, calibrate, maintain, and operate in a satisfactory manner a device to monitor and record the visible emissions on a continuous basis and in accordance with 40 CFR Part 60. See Appendix 3-1 BR.3.[2] **(R 336.1201; 40 CFR Part 60, Subpart D; 40 CFR 60.13; 40 CFR Part 60, Appendix B)**

4. The permittee shall develop a QA/QC program for the CEM systems. At a minimum, include in each QA/QC program a written plan that describes in detail complete, step-by-step procedures and operations for the activities specified in Appendix B to 40 CFR Part 75. **(40 CFR Part 75, Appendix B.1)**

5. For each electrostatic precipitator, the permittee shall monitor the parameters specified in the SS & MAP.[2] **(R 336.1201))**

6. The permittee shall keep monthly and previous 12-month CO mass emission calculation records for EU-BOILER1-BR. After five years of operation of the low NO_X burner system, the permittee may submit a written request to change the CO emission calculation recordkeeping to the AQD District Supervisor for review and approval. The permittee may only change the CO emission calculation recordkeeping with written approval of the AQD District Supervisor.[2] **(R 336.2804, R 336.2810(3), 40 CFR 52.21(d) & (j))**

7. The permittee shall conduct monitoring and keep written records, as required in the approved Carbon Monoxide Minimization Protocol, to demonstrate that CO is being minimized on an ongoing basis. After five years of operation of the low NO_X burner system, the permittee may submit a written request to change the monitoring and recordkeeping to the AQD District Supervisor for review and approval. The permittee may only change the monitoring and recordkeeping with the written approval of the AQD District Supervisor.[2] **R 336.2804, R 336.2810(3), 40 CFR 52.21(d) & (j))**

8. The permittee shall maintain and continuously operate a PM CEMS pursuant to the conditions contained in Appendix 3-1 BR.4. PM CEMS.[2,3,4] **(R 336.1201; Act 451, Section 324.5503(b); Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraphs 25 & 26)**

9. In calculating each 24-Hour Rolling Average Emission Rate for PM, any hour that includes periods of Startup as defined in 40 CFR 63.10042, shall not be considered an Operating Hour for purposes of that calculation.[2,3,4] **(R 336.1201; Act 451, Section 324.5503(b); Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 24)**

10. For purposes of determining compliance with the 30-Day Rolling Average Emission Rates for NO_X and SO_2 as found in SC I.5 and I.7, the permittee shall use emission data obtained from a CEMS in accordance with the procedures of 40 CFR Part 75, except that the emissions data need not be bias adjusted and the missing data substitution procedures of 40 CFR Part 75 shall not apply to such determinations. Diluent capping (i.e,, 5% CO_2) shall be applied to the emission rate for any hours where the measured CO_2 concentration is less than 5% following the procedures in 40 CFR Part 75, Appendix F, Section 3.3.4.1.[2,3,4] **(R 336.1201; Act 451, Section 324.5503(b); Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 12)**

See Appendix 3-1 BR

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD district office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

4. The permittee shall submit quarterly Excess Emission and Monitoring System Performance (MPS) reports and operating information pursuant to 40 CFR Part 60, Subpart D, within 30 days following the end of the quarter in which data was collected. See Appendix 8-1 BR.2.[2] **(40 CFR Part 60, Subpart D)**

5. The permittee shall submit a periodic report, within 60 days after the end of each half of the calendar year (January through June and July through December), to demonstrate compliance with the Consent Decree as specified in Appendix 8-1 BR.3.[2,3,4] **(R 336.1201; Act 451, Section 324.5503(b); Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 48)**

6. For the continuous monitoring system for the measurement of opacity, the permittee shall submit to the District Supervisor and Compliance Support Unit Supervisor, Air Quality Division and to the Chief of the Air Compliance Branch, U.S. Environmental Protection Agency, within 30 days of the end of the calendar quarter, a written report for each calendar quarter which shall include all of the following information:[2] **(R 336.2170(1)(a), (b) & (c); Title I (Air Pollution Prevention and Control) of the Clean Air Act, Section 114(a))**

   a. Excess emissions, corrective action taken and the nature and cause of excess emissions. For opacity measurements, the report shall consist of the magnitude, in actual percent opacity, of all 6-minute averages of opacity more than the applicable opacity standard for each hour of operation (all allowable exceptions are to be deducted prior to determining the excess averages of opacity). Average values shall be obtained by integration over the averaging period of by arithmetically averaging a minimum of 24 equally spaced, instantaneous opacity measurements per 6 minutes.

   b. The date and time identifying each period during which the continuous monitoring system was inoperative, except for zero and span checks, and the nature of repairs or adjustments made.

   c. If the monitoring system has not been inoperative, repaired, or adjusted, and if no excess emissions occurred, a statement attesting to this fact.

7. The permittee shall submit to the Chief of the Air Compliance Branch, U.S. Environmental Protection Agency and the District Supervisor of the Air Quality Division, within 30 days of the end of the calendar quarter, a written report for each calendar quarter, which shall include sulfur dioxide (SO_2) monthly emission rate averages.[2] **(R 336.1213(3); Title I (Air Pollution Prevention and Control) of the Clean Air Act, Section 114(a))**

8. The permittee shall report sulfur dioxide (SO_2), nitrogen oxide (NO_X) and carbon dioxide (CO_2) emissions, volumetric flow, and opacity data in accordance with 40 CFR Part 75 (Continuous Emission Monitoring).[2] **(40 CFR Part 75)**

9. The permittee shall submit any performance test reports, including RATA reports, to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. **(R 336.1213(3)(c), R 336.2001(5))**

See Appendix 8-1 BR

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-BOILER1-BR	306[2]	660[2]	**R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)**
2. SV-BOILER2-BR	306[2]	660[2]	**R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)**

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with the NO_X standards, which have been promulgated in a federal implementation plan under section 110(c) or required under section 126 of the CAA.[2] **(R 336.1801(14))**

2. As would apply to any other condition in this permit, nothing in this permit shall preclude the use, including exclusive use, of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed.[2] **(40 CFR 60.11(g))**

3. The permittee shall comply with applicable requirements of the federal National Emissions Standards for Hazardous Air Pollutants as set forth in 40 CFR Part 63, Subparts A and UUUUU (Coal- and Oil-Fired Electric Utility Steam Generating Units) for FG-BOILERS-BR. The permittee shall comply with all notice requirements, emissions standards and continuous emissions monitoring, recordkeeping, and reporting requirements as required in 40 CFR Part 63, Subparts A and UUUUU. All emission and operating data shall be kept on file for a period of at least five years and made available to the AQD upon request.[2] **(40 CFR Part 63, Subparts A and UUUUU)**

4. The permittee shall comply with the acid rain permitting provisions of 40 CFR 72.1 to 72.94, as outlined in a complete Phase II, Acid Rain Permit issued by the AQD. Phase II, Acid Rain Permit No. MI-AR-6034-2024 is hereby incorporated into this ROP as Appendix 9-1 BR. **(R 336.1902(1)(p))**

5. The permittee shall not allow the emission of an air pollutant to exceed the amount of any emission allowances that an affected source lawfully holds as of the allowance transfer deadline pursuant to R 336.1902(1)(p) and 40 CFR 72.9(c)(1)(i). **(R 336.1213(10))**

6. The permittee shall comply with the provisions of the Cross-State Air Pollution Rule SO_2 Group 1 Trading Program, as specified in 40 CFR Part 97, Subpart CCCCC, and identified in Appendix 10-1 BR. **(40 CFR Part 97, Subpart CCCCC)**

7. The permittee shall comply with the provisions of the Cross-State Air Pollution Rule NO_X Annual Trading Program, as specified in 40 CFR Part 97, Subpart AAAAA, and identified in Appendix 10-1 BR. **(40 CFR Part 97, Subpart AAAAA)**

8. The permittee shall comply with the provisions of the Cross State Air Pollution Rule NO_X Ozone Group 3 Trading Program, as specified in 40 CFR Part 97, Subpart GGGGG, and identified in Appendix 10-1 BR. **(40 CFR Part 97, Subpart GGGGG)**

Footnotes:
[1]This condition is state-only enforceable and was established pursuant to Rule 201(1)(b).
[2]This condition is federally enforceable and was established pursuant to Rule 201(1)(a).
[3]This condition is federally enforceable and was originally established in the consent decree settling "U.S. v DTE Energy and Detroit Edison Company, Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, 2020" and also pursuant to Act 451, Section 324.5503(b), and will remain in effect after termination of the consent decree.
[4]Definitions specific to this condition may be found in Appendix 1-1-B BR.

FG-AUXBLRS-BR
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Applicable requirements associated with the Belle River Power Plant North and South Auxiliary Boilers, which are subject to 40 CFR Part 63, Subpart DDDDD as limited use boilers.

Limited-use boilers means any boiler that burns any amount of solid, liquid, or gaseous fuels and has a federally enforceable average annual capacity factor of no more than 10 percent.

Emission Units: EU-NAUXBLR-BR, EU-SAUXBLR-BR

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. SO_2	0.51 pounds per million BTU of heat input[2]	Instantaneous	FG-AUXBLRS-BR	SC VI.1 and VI.2	**R 336.1201(3)**

The SO_2 limit is based on a 0.5% sulfur content with a heat value of 18,000 BTU/lb for the liquid fuel oil.[2]

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Diesel (Note A)	10 % annual capacity factor on oil (Note B)	Calendar Year	EU-NAUXBLR-BR EU-SAUXBLR-BR	SC VI.2.d	**40 CFR 63.7555(d)(3)**

Note A: This limit is to satisfy the Federally Enforceable capacity factor limit associated with the limited use designation under 40 CFR Part 63, Subpart DDDDD, (40 CFR 63.7555(d)(3)). The No. 2 fuel oil limit takes effect on January 1, 2016 to assure compliance with the MACT compliance date of January 31, 2016, specified in 40 CFR 63.7495(b) .

Note B: Annual capacity factor means the ratio between the actual heat input to a boiler from the fuels burned during a calendar year to the potential heat input to the boiler had it been operated for 8,760 hours during a year at the maximum steady state design heat input capacity. **(40 CFR 63.7575)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee must complete an initial tune-up specified in SC III.3 no later than January 31, 2016 for EU-NAUXBLR-BR, EU-SAUXBLR-BR. **(40 CFR 63.7510(e))**

2. The permittee must conduct a tune-up of each boiler in FG-AUXBLRS-BR every 5 years (no more than 61 months after the previous tune-up). If a boiler in FG-AUXBLRS-BR is not operating on the required date for tune-up, the tune-up must be conducted within 30 calendar days of startup. **(40 CFR 63.7500(a)(1), 40 CFR 63.7515(d) and (g), 40 CFR 63.7540 (13))**

3. The permittee shall conduct a tune up of each boiler in FG-AUXBLRS-BR as specified in the following: **(40 CFR 63.7540(a)(12))**

   a. As applicable, inspect the burner, and clean or replace any components of the burner as necessary. The permittee may perform the burner inspection any time prior to the tune up or delay the burner inspection until the next scheduled or unscheduled unit shutdown (the permittee must inspect each burner at least once every 72 months). **(40 CFR 63.7540(a)(10)(i) and (12))**

   b. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. **(40 CFR 63.7540(a)(10)(ii))**

   c. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the permittee may delay the inspection until the next unit shutdown). **(40 CFR 63.7540(a)(10)(iii))**

   d. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_X requirement to which the unit is subject. **(40 CFR 63.7540(a)(10)(iv))**

   e. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made. (Measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. **(40 CFR 63.7540(a)(10)(v))**

4. At all times, must operate and maintain each existing limited-use boiler or process heater, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. **(40 CFR 63.7500)(a)(3))**

5. The permittee must install a fuel meter or may share a fuel meter for each boiler. **(R 336.1213(3))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall keep a record of the following on a monthly basis: **(R 336.1213(3))**

   a. Total fuel usage

   b. Sulfur content of fuel oil

   c. Hours of operation for equipment

   d. Heat value of fuel oil

2. The permittee must keep the following records:

   a. Fuel use records for the days the boiler was operating on a calendar month basis. **(R 336.1213(3), 40 CFR 63.7525(k), 40 CFR 63.7555(a)(3))**

   b. A copy of each notification and report that is submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or 5-year compliance report that the permittee submitted. **(40 CFR 63.7555(a)(1))**

   c. Records of the actual heat input of fuel burned in each limited-use boiler or process heater on a monthly and 12-month calendar year time period as determined at the end of each calendar month. **(R 336.1213(3))**

   d. For each calendar year, the permittee shall calculate the annual capacity factor at the end of each calendar month for each limited-use boiler or process heater. The annual capacity factor is the ratio between the actual heat input from fuel burned to the potential heat input to the boiler or process heater had it been operated for 8,760 hours during a 12-month time period at the maximum steady state design heat input capacity. **(R 336.1213(2)(d), 40 CFR 63.7555(a)(2), 40 CFR 63.7575)**

   e. The permittee must keep a copy of the federally enforceable permit that limits the annual capacity factor to less than or equal to 10 percent and fuel use records for the days the boiler or process heater was operating. **(40 CFR 63.7555(a)(3))**

3. The permittee shall maintain on-site, and submit if requested by the AQD, the most recent 5-year periodic report containing the following information:

   a. The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater. **(40 CFR 63.7540(a)(10)(vi)(A))**

   b. A description of any corrective actions taken as a part of the tune-up. **(40 CFR 63.7540(a)(10)(vi)(B))**

   c. The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit. **(40 CFR 63.7540(a)(10)(vi)(C))**

4. The permittee shall perform visible emissions observation of each auxiliary boiler at least once a day when the boilers are operating continuously for 24 hours or more. The permittee shall initiate corrective action upon observation of excessive visible emissions and shall keep a written record of each required observation and corrective action. **(R 336.1213(3))**

5. The permittee shall maintain a complete record of fuel oil specifications and/or fuel analysis for each delivery, or storage tank, of fuel oil used for the auxiliary boilers. These records may include purchase records for ASTM specification fuel oil, specifications or analyses provided by the vendor at the time of delivery, analytical results from laboratory testing, or any other records adequate to demonstrate compliance with the percent sulfur limit in fuel oil. **(R 336.1213(3))**

6. The permittee must keep the records in a form suitable and readily available for expeditious review. **(40 CFR 63.7560(a))**

7. The permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. **(40 CFR 63.7560(b))**

8. The permittee must keep each record on site, or they must be accessible from on-site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee can keep the records off site for the remaining 3 years. **(40 CFR 63.7560(c))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

4. The permittee shall submit applicable notifications specified in 40 CFR 63.7(b) and (c), 40 CFR 63.8(f)(4) and 40 CFR 63.9(b) through (e) and (h), as specified in 40 CFR 63.7545. **(40 CFR 63.7545(a))**

5. If the permittee has switched fuels or made a physical change to the boiler and the fuel switch or physical change resulted in the applicability of a different subcategory, the permittee must provide notice of the date upon which the permittee switched fuels or made the physical change within 30 days of the switch/change. The notification must identify: **(40 CFR 63.7495(h))**

   a. The name of the owner or operator of the affected source, the location of the source, the boiler(s) and process heater(s) that have switched fuels, were physically changed, and the date of the notice. **(40 CFR 63.7545(h)(1))**

   b. The currently applicable subcategory under 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7545(h)(2))**

   c. The date upon which the fuel switch or physical change occurred. **(40 CFR 63.7545(h)(3))**

6. The permittee must submit boiler tune-up compliance reports to the appropriate AQD District Office and must be postmarked or submitted by March 15 of the year following the applicable 5-year period starting from January 1 of the year following the previous compliance report to December 31 (of the latest tune-up year). Compliance reports must be submitted to EPA using the Compliance and Emissions Data Reporting Interface (CEDRI) which is accessed through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). If the reporting form is not available in CEDRI at the time the compliance report is due, a hardcopy of the compliance report shall be submitted to the state and EPA Region 5. **(40 CFR 63.7550(b), 40 CFR 63.7550(h)(3))**

7. The compliance report must contain the following information: **(40 CFR 63.7550(c)(1))**

   a. Company and Facility name and address. **(40 CFR 63.7550(c)(5)(i))**

   b. Process unit information, emissions limitations, and operating parameter limitations. **(40 CFR 63.7550(c)(5)(ii))**

   c. Date of report and beginning and ending dates of the reporting period. **(40 CFR 63.7550(c)(5)(iii))**

   d. The total operating time during the reporting period. **(40 CFR 63.7550(c)(5)(iv))**

   e. Include the date of the most recent tune-up for each unit. Include the date of the most recent burner inspection if it was not done on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown. **(40 CFR 63.7550(c)(5)(xiv))**

   f. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. **(40 CFR 63.7550(c)(5)(xvii))**

See Appendix 8-1 BR

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters as specified in 40 CFR Part 63, Subparts A and DDDDD (Boiler MACT). **(R 336.1213(3), 40 CFR Part 63, Subparts A and DDDDD)**

2. If the permittee has switched fuels or made a physical change to the boiler or process heater and the fuel switch or physical change resulted in the applicability of a different subcategory, the permittee must demonstrate compliance within 60 days of the effective date of the switch, unless the compliance demonstration for this subcategory has been conducted within the previous 12 months. **(40 CFR 63.7510(k))**

Footnotes:
[1] This condition is state only enforceable and was established pursuant to Rule 201(1)(b).
[2] This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

FG-ASH_HAND-BR
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Emission units representing flyash collection and handling at Belle River Power Plant, including the flyash load-out facilities, where emissions are limited by enclosures and water sprays.

Flyash collection from Boiler Nos. 1 and 2; handling in flyash silo #1 & #2; and ash load-out facilities.

Emission Units: EU-ASHSILO#1-BR, EU-ASHSILO#2-BR

POLLUTION CONTROL EQUIPMENT

Flyash silo #1 and #2 dust collectors vent to the FG-BOILERS-BR ESPs (electrostatic precipitators).

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Particulate Matter (PM)	0.10 pounds per 1000 pounds of exhaust gases, on a dry basis[2]	Instantaneous	Flyash Handling System	SC V.1	**R 336.1331(c)**

2. Visible emissions from the flyash collection and handling system shall not exceed 20% opacity except as specified in Rule 301.[2] **(R 336.1301)**

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall collect and dispose of air contaminants in a manner so as to minimize the introduction of contaminants to the outer air. **(R 336.1370)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. Upon request by the AQD District Supervisor, the permittee shall verify PM emission rates from FG-ASH_HAND-BR by testing at the owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the

test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall perform visible emission observation during flyash loading of trucks and railroad cars from the silo, at least once every seven days during routine operating conditions. The permittee shall initiate corrective action upon observation of excessive visible emissions and shall maintain a record of each required observation and corrective action. **(R 336.1213(3))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

See Appendix 8-1 BR

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall maintain and implement the approved Fugitive Dust Control Program. Alternate formats or revisions to the approved Program must be approved by the AQD District Supervisor. **(R 336.1213(3))**

Footnotes:
[1] This condition is state only enforceable and was established pursuant to Rule 201(1)(b).
[2] This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

FG-COALHAND-SC
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Emission Units representing coal handling for conveyors from St. Clair River to Belle River Power Plant. Includes transfer houses, crusher house and coal storage piles.

The following are among the emission points included: Transfer House 3THA-30DC202, Transfer House 3TH3-30DC118 (wet dust collector), Transfer House 3TH5-30DC06-6 (wet dust collector), Transfer House 3TH6-30DC07 & 30DC08 (wet dust collectors), and Transfer House 3TH1-30DC01 (wet dust collector).

Emission Units: EU-TRANSFER_HS-SC, EU-CRUSHER_HS-SC

POLLUTION CONTROL EQUIPMENT

Enclosures, Sprays, Fogging Systems, Wet Dust Extraction Units, or Dust Collectors

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Particulate Matter	0.038 grains per dry standard cu ft.[2]	Hourly	Each exhaust vent of FG-COALHAND-SC	SC V.1	**R 336.1331(c)**

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Radial stackers shall be operated in a manner which will minimize the free fall distance of the material being handled.[2] **(R 336.1201(3))**

2. The permittee shall not operate the coal handling equipment unless the bag filters are installed and operating properly.[2] **(R 336.1201(3), R 336.1910)**

3. The permittee shall implement and maintain an approved Malfunction Abatement and Preventative Maintenance Plan for the baghouse dust collection system. Alternate formats or revisions to the approved program must be approved by the AQD District Supervisor.[2] **(R 336.1201(3), R 336.1911)**

4. The permittee shall implement and maintain an approved Fugitive Dust Control Program for the coal storage piles. Alternate formats or revisions to the approved program must be approved by the AQD District Supervisor. **(R 336.1213(3))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. All conveyor belting shall be totally enclosed to control particulate fallout either on public or company property or into the water.[2] **(R 336.1201(3))**

   NOTE: This condition refers to Phase I Coal Handling System consisting of Transfer House 3TH1 through 3TH5.

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. Upon request by the AQD District Supervisor, the permittee shall verify PM emission rates from FG-COALHAND-SC by testing at the owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall perform and document non-certified visible emissions observations on a daily basis when operating. If during the observation there are any visible emissions detected, a USEPA Method 9 certified visible emissions observation shall be conducted for a minimum of 15 minutes to determine the actual opacity from that emission point. Records of the non-certified visible emissions observations, USEPA Method 9 observations that are performed, the reason for any visible emissions in excess of 20% opacity observed, and any corrective actions taken shall be kept on file and made available to the Department upon request. **(R 336.1213(3))**

2. The permittee shall inspect conveyor belting enclosures to determine and record conditions, once per calendar year. **NOTE:** This condition refers to Phase I Coal Handling System consisting of Transfer House 3TH1 through 3TH5. **(R 336.1213(3))**

3. The permittee shall maintain a log of all inspections, maintenance activities, and repairs made to the pollution control equipment. Maintenance records for the pollution control equipment shall be consistent with the Malfunction Abatement and Preventative Maintenance Plan. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1213(3))**

4. The permittee shall maintain a log of the activities performed to control fugitive dust from coal storage piles. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1213(3))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

See Appendix 8-1 BR

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:
[1] This condition is state only enforceable and was established pursuant to Rule 201(1)(b).
[2] This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

FG-COALHAND-BR
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Emission units representing coal handling at Belle River Power Plant. Includes transfer houses, coal silos, cascades rooms, and coal storage piles.

The following are among the emission points included: Boiler No. 1 Coal Silo Wet Dust Extraction Unit 3DC111, Boiler No. 1 Coal Silo Wet Dust Extraction Unit 3DC112, Boiler No. 2 Coal Silos Wet Dust Extraction Unit 3DC113, Boiler No.2 Silos Wet Dust Extraction Unit 3DC114, Cascade Wet Dust Extraction Unit 3DC115, , Transfer House 3TH9-3DC012, Transfer House 3TH9-3DC013, Transfer House 3TH9-3DC015, 3TH7 (5th flr) Wet Dust Extraction Unit 3DC116, 3TH7 (6th flr) Wet Dust Extraction Unit 3DC117, 3TH8 Wet Dust Extraction Unit 3DC119.

Emission Units: EU-TRANS_HS-BR, EU-COALSILOS-BR, EU-CASCADES-BR

POLLUTION CONTROL EQUIPMENT

Enclosures, Sprays, Wet Dust Extraction Units or Dust Collectors

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Particulate Matter (PM)	0.038 grains per dry standard cu.ft. of exhaust gases[2]	Hourly	Each exhaust vent of FG-COALHAND-BR	SC V.1	**R 336.1331(1)(c)**

2. Visible emissions are limited to an opacity of less than or equal to 20% except as specified in Rule 301.[2] **(R 336.1301)**

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Stackers, reclaimers, and dust suppression equipment shall be operated in a manner which will minimize the fugitive particulate emissions.[2] **(R 336.1201(3))**

2. The coal handling system Pollution Control Equipment shall be installed and operated properly. **(R 336.1910)**

3. The permittee shall not operate FG-COALHAND-BR unless the fugitive emissions control plan for all plant roadways, the plant yard, all material storage piles, and all material handling operations has been submitted, and is implemented and maintained. The permittee shall submit any amendments to the plan to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the plan, or amended plan shall be considered approved. **(R 336.1371, R 336.1372, Act 451, Section 324.5524)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. All conveyor belting shall be totally enclosed to control particulate fallout either on public or company property or into the water.[2] **(R 336.1201(3))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. Upon request by the AQD District Supervisor, the permittee shall verify PM emission rates from FG-COALHAND-BR by testing at the owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall perform and document non-certified visible emissions observations on a daily basis when operating. If during the observation there are any visible emissions detected, a USEPA Method 9 certified visible emissions observation shall be conducted for a minimum of 15 minutes to determine the actual opacity from that emission point. Records of the non-certified visible emissions observations, USEPA Method 9 observations that are performed, the reason for any visible emissions in excess of 20% opacity observed, and any corrective actions taken shall be kept on file and made available to the Department upon request. **(R 336.1213(3))**

2. The permittee shall inspect all conveyor belting enclosures to determine and record conditions, once per calendar year. **(R 336.1213(3))**

3. The permittee shall maintain records of the activities performed as required by the control fugitive dust control plan for FG-COALHAND-BR. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1213(3))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

See Appendix 8-1 BR

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:
[1] This condition is state only enforceable and was established pursuant to Rule 201(1)(b).
[2] This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

FG-FIREPUMPS-BR
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

40 CFR Part 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), located at a major source of HAP emissions, existing emergency, compression ignition (CI) RICE equal to or less than 500 brake hp. A RICE is existing if the date of installation is before June 12, 2006. There is no time limit on the use of emergency stationary RICE in emergency situations per 40 CFR 63.6640(f)(1).

Emission Units: EU-FIREPUMP-SC, EU-FIREPUMP-BR

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. The permittee shall burn only diesel fuel in each engine with a maximum sulfur content of 15 ppm (0.0015 percent) by weight and a minimum Cetane index of 40 or a maximum aromatic content of 35 volume percent. **(R 336.1213(2), 40 CFR 1090.305)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee must comply with the requirements in Item 1 of Table 2c of 40 CFR Part 63, Subpart ZZZZ which apply EU-FIREPUMP-BR as specified in the following:

   a. Change oil and filter every 500 hours of operation or annually, whichever comes first, except as allowed in SC III.2;

   b. Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and

   c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

   If the emergency engine is being operated during an emergency and it is not possible to shut down the engine to perform the management practice requirements on the schedule required, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State or local law has been abated. Sources must report any failure to perform the management practice on the schedule required and the Federal, State or local law or which the risk was deemed unacceptable. **(40 CFR 63.6602, 40 CFR Part 63, Subpart ZZZZ, Table 2c.1)**

2. The permittee may utilize an oil analysis program in order to extend the specified oil change requirement in SC lll.1. The oil analysis must be performed at the same frequency specified for changing the oil in SC lll.1. **(40 CFR 63.6625(i))**

3. The permittee shall operate and maintain each engine in FG-FIREPUMPS-BR and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. **(40 CFR 63.6605, 40 CFR 63.6625(e), 40 CFR 63.6640(a), 40 CFR Part 63, Subpart ZZZZ, Table 6.9)**

4. For each engine in FG-FIREPUMPS-BR, the permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup apply. **(40 CFR 63.6625(h))**

5. The permittee may operate each engine in FG-FIREPUMPS-BR for no more than 100 hours per calendar year for the purpose of necessary maintenance checks and readiness testing, provided that the tests are recommended by federal, state, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing. A petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency internal combustion engines beyond 100 hours per calendar year. **(40 CFR 63.6640(f)(2))**

6. Each engine in FG-FIREPUMPS-BR may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in SC III.5. The 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for the permittee to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. **(40 CFR 63.6640(f)(3))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each engine in FG-FIREPUMPS-BR with non-resettable hours meters to track the operating hours. **(40 CFR 63.6625(f))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. If using the oil analysis program, the permittee must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30% of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20% from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all these condemning limits are not exceeded, the permittee is not required to change the oil. If any of the limits are exceeded, the permittee must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the permittee must change the oil within 2 business days or before commencing operation, whichever is later. The permittee must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. **(40 CFR 63.6625(i))**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. For each engine in FG-FIREPUMPS-BR the permittee shall keep in a satisfactory manner, records to demonstrate continuous compliance with the operation and maintenance of the engine according to the manufacturer's emission-related operation and maintenance instructions; or of a maintenance plan that provides to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(d), 40 CFR 63.6660, 40 CFR Part 63, Subpart ZZZZ, Table 6.9)**

2. For each engine in FG-FIREPUMPS-BR the permittee shall keep in a satisfactory manner, records of the maintenance conducted to demonstrate that the engine and after-treatment control device (if any) were operated and maintained according to the developed maintenance plan. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 63.6655(e), 40 CFR 63.6660)**

3. The permittee shall monitor and record, the total hours of operation for each engine in FG-FIREPUMPS-BR on a monthly basis, and the hours of operation during emergency and non-emergency service that are recorded through the non-resettable hour meter for each engine in EU-FIREPUMP-SC on a calendar year basis, in a manner acceptable to the AQD District Supervisor. The permittee shall document how many hours are spent for emergency operation including what classified the operation as emergency and how many hours are spent for non-emergency operation. The permittee shall keep all records on file and make them available to the department upon request. **(R 336.1213(3), 40 CFR 63.6655(f), 40 CFR 63.6660)**

4. The permittee shall keep, in a satisfactory manner, fuel supplier certification records or fuel sample test data, for each delivery of diesel fuel oil used in FG-FIREPUMPS-BR, demonstrating that the fuel meets the requirement of SC II.1. The certification or test data shall include the name of the oil supplier or laboratory, the sulfur content, and cetane index or aromatic content of the fuel oil. The permittee shall keep all records on file and make them available to the department upon request. **(40 CFR 80.510(b))**

5. The permittee's records must be in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1). **(40 CFR 63.6660(a))**

6. As specified in 40 CFR 63.10(b)(1), the permittee must keep each record for 5-years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. **(40 CFR 63.6660(b))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

See Appendix 8-1 BR

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable requirements of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subparts A and ZZZZ for Stationary Reciprocating Internal Combustion Engines. **(40 CFR Part 63, Subparts A and ZZZZ)**

Footnotes:

[1] This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

[2] This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

FG-COLDCLNRS-BR
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Any cold cleaner that is grandfathered or exempt from Rule 201 pursuant to Rule 278, Rule 278a and Rule 281(2)(h) or Rule 285(2)(r)(iv). Existing cold cleaners were placed into operation prior to July 1, 1979. New cold cleaners were placed into operation on or after July 1, 1979.

Emission Units: EU-PARTSCLN-SC, EU-PARTSCLN-BR

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. The permittee shall not use cleaning solvents containing more than five percent by weight of the following halogenated compounds: methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, or any combination thereof. **(R 336.1213(2))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Cleaned parts shall be drained for no less than 15 seconds or until dripping ceases. **(R 336.1611(2)(b), R 336.1707(3)(b))**

2. The permittee shall perform routine maintenance on each cold cleaner as recommended by the manufacturer. **(R 336.1213(3))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The cold cleaner must meet one of the following design requirements:
   a. The air/vapor interface of the cold cleaner is no more than ten square feet. **(R 336.1281(2)(h))**
   b. The cold cleaner is used for cleaning metal parts and the emissions are released to the general in-plant environment. **(R 336.1285(2)(r)(iv))**

2. The cold cleaner shall be equipped with a device for draining cleaned parts. **(R 336.1611(2)(b), R 336.1707(3)(b))**

3. All new and existing cold cleaners shall be equipped with a cover and the cover shall be closed whenever parts are not being handled in the cold cleaner. **(R 336.1611(2)(a), R 336.1707(3)(a))**

4. The cover of a new cold cleaner shall be mechanically assisted if the Reid vapor pressure of the solvent is more than 0.3 psia or if the solvent is agitated or heated. **(R 336.1707(3)(a))**

5. If the Reid vapor pressure of any solvent used in a new cold cleaner is greater than 0.6 psia; or, if any solvent used in a new cold cleaner is heated above 120 degrees Fahrenheit, then the cold cleaner must comply with at least one of the following provisions:

a. The cold cleaner must be designed such that the ratio of the freeboard height to the width of the cleaner is equal to or greater than 0.7. **(R 336.1707(2)(a))**

b. The solvent bath must be covered with water if the solvent is insoluble and has a specific gravity of more than 1.0. **(R 336.1707(2)(b))**

c. The cold cleaner must be controlled by a carbon adsorption system, condensation system, or other method of equivalent control approved by the AQD. **(R 336.1707(2)(c))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. For each new cold cleaner in which the solvent is heated, the solvent temperature shall be monitored and recorded at least once each calendar week during routine operating conditions. **(R 336.1213(3))**

2. The permittee shall maintain the following information on file for each cold cleaner: **(R 336.1213(3))**
   a. A serial number, model number, or other unique identifier for each cold cleaner.
   b. The date the unit was installed, manufactured or that it commenced operation.
   c. The air/vapor interface area for any unit claimed to be exempt under Rule 281(2)(h).
   d. The applicable Rule 201 exemption.
   e. The Reid vapor pressure of each solvent used.
   f. If applicable, the option chosen to comply with Rule 707(2).

3. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component, used in each cold cleaner. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1213(3))**

4. The permittee shall maintain written operating procedures for each cold cleaner. These written procedures shall be posted in an accessible, conspicuous location near each cold cleaner. **(R 336.1611(3), R 336.1707(4))**

5. As noted in Rule 611(2)(c) and Rule 707(3)(c), if applicable, an initial demonstration that the waste solvent is a safety hazard shall be made prior to storage in non-closed containers. If the waste solvent is a safety hazard and is stored in non-closed containers, verification that the waste solvent is disposed of so that not more than 20 percent, by weight, is allowed to evaporate into the atmosphere shall be made on a monthly basis. **(R 336.1213(3), R 336.1611(2)(c), R 336.1707(3)(c))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

See Appendix 8-1 BR

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

FG-MATS-BR
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

40 CFR Part 63, Subpart UUUUU (Mercury and Air Toxics Standards or MATS) requirements for existing coal-fired electric utility steam generating unit(s) (EGU) rated more than 25 megawatts electric (MWe) that serve(s) a generator producing electricity for sale and designed to burn coal that is not low rank virgin coal (calorific value of ≥ 8,300 BTU/pound).

Emission Units: EU-BOILER1-BR, EU-BOILER2-BR

POLLUTION CONTROL EQUIPMENT

Each EGU is equipped with low NOx burners, overfire air, ESP, DSI, and ACI systems.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Filterable PM	0.030 lb/MMBTU*	30-boiler operating day rolling arithmetic average updated at the end of each new boiler operating day	EU-BOILER1-BR EU-BOILER2-BR	SC VI.4 SC VI.9 SC VI.10 SC VI.11	**40 CFR 63.9991, 40 CFR Part 63, Subpart UUUUU, Table 2.1.a**
2. Hydrogen chloride (HCl)	0.0020 lb/MMBTU*	Quarterly Stack Test	EU-BOILER1-BR EU-BOILER2-BR	SC V.1 SC VI.9 SC VI.11	**40 CFR 63.9991, 40 CFR Part 63, Subpart UUUUU, Table 2.1.b**
3. Mercury (Hg)	1.2 lb/TBTU*	30-boiler operating day rolling arithmetic average updated at the end of each new boiler operating day	EU-BOILER1-BR EU-BOILER2-BR	SC VI.5 SC VI.9 SC VI.11	**40 CFR 63.9991, 40 CFR Part 63, Subpart UUUUU, Table 2.1.c**

* The emission limits apply at all times except during startup and shutdown

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall conduct a tune-up of each emission unit of FG-MATS-BR burner(s) and combustion controls, as applicable, at least every 36 calendar months, or each 48 calendar months if neural network combustion optimization software is employed, as specified in 40 CFR 63.10021(e). **(40 CFR 63.10000(e), 40 CFR 63.10006(i), 40 CFR 63.10021(e))**

2. For the startup of any emission unit of FG-MATS-BR which will comply using paragraph (1) of the definition of ‘‘startup’’ in 40 CFR 63.10042, the permittee must use clean fuels as defined in 40 CFR 63.10042 for ignition. Once the emission unit(s) of FG-MATS-BR convert(s) to firing coal, residual oil, or solid oil-derived fuel, the permittee must engage all the applicable control technologies except dry scrubber and SCR. The permittee must start the dry scrubber and SCR systems, if present, appropriately to comply with relevant standards applicable during normal operation. The permittee must comply with all applicable emission limits at all times except for periods that meet the applicable definitions of startup and shutdown in 40 CFR Part 63, Subpart UUUUU. **(40 CFR 63.10042, 40 CFR Part 63, Subpart UUUUU, Table 3.3(a))**

3. During shutdown of any emission unit of FG-MATS-BR while firing coal, residual oil, or solid oil-derived fuel, the permittee must vent emissions to the main stack(s) and operate all applicable control devices and continue to operate those control devices after the cessation of coal, residual oil, or solid oil-derived fuel being fed into the applicable emission unit(s) of FG-MATS-BR and for as long as possible thereafter considering operational and safety concerns. In any case, the permittee must operate their controls when necessary to comply with other standards made applicable to the FG-MATS-BR by a permit limit or a rule other than 40 CFR Part 63, Subpart UUUUU and that require operation of the control devices. If, in addition to the fuel used prior to initiation of shutdown, another fuel must be used to support the shutdown process, that additional fuel must be one or a combination of the clean fuels defined in 40 CFR 63.10042 and must be used to the maximum extent possible taking into account considerations such as not compromising boiler or control device integrity.
(40 CFR 63.10042, 40 CFR Part 63, Subpart UUUUU, Table 3.4)

4. The emission limits and operating limits in 40 CFR Part 63, Subpart UUUUU apply at all times except during periods of startup and shutdown; however, the applicable work practice requirements, which are specified in items 3 and 4 of Table 3 of 40 CFR Part 63, Subpart UUUUU must be met during periods of startup or shutdown. **(40 CFR 63.10000(a), 40 CFR Part 63, Subpart UUUUU, Table 3)**

5. The permittee shall operate and maintain all associated air pollution control equipment and monitoring equipment necessary for compliance with 40 CFR Part 63, Subpart UUUUU in a manner consistent with safety and good air pollution control practices for minimizing emissions. **(40 CFR 63.10000(b))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall install, calibrate, maintain, and operate a device to monitor and record the PM concentration of the exhaust gas from each emission unit on a continuous basis. The permittee shall install and operate the PM CEMS to meet the timelines, requirements and reporting detailed in Appendix C of 40 CFR Part 63, Subpart UUUUU. **(40 CFR 63.10010(i), 40 CFR Part 63, Subpart UUUUU, Table 5)**

2. The permittee shall install, calibrate, maintain, and operate a device to monitor and record the Hg concentration from each emission unit on a continuous basis. The permittee shall install and operate the Hg CEMS or sorbent trap monitoring system to meet the timelines, requirements and reporting detailed in Appendix A of 40 CFR Part 63, Subpart UUUUU. **(40 CFR 63.10000(c)(1)(vi))**

3. If required to convert measured pollutant concentrations to the units of the applicable mass per heat input emission limit(s) or for routine operation of a sorbent trap monitoring system, the permittee shall install, calibrate, maintain, and operate a device to monitor and record the oxygen (O_2) or carbon dioxide (CO_2) exhaust gas content, exhaust gas flow rate and/or moisture from each emission unit on a continuous basis. The monitor shall be operated in accordance with procedures outlined in 40 CFR Part 75, Appendices A and B. As an alternative to moisture monitoring, the permittee may elect to use appropriate fuel-specific default moisture values from 40 CFR 75.11(b) for coal-fired units or a default moisture value for non-coal-fired units as established via petition to the Administrator under 40 CFR 75.66. **(40 CFR 63.10010(b)-(d), 40 CFR Part 63, Subpart UUUUU, Table 5)**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall verify the HCl emission rates from each emission unit by testing at owner's expense, in accordance with 40 CFR 63.10007 and Table 5 to 40 CFR Part 63, Subpart UUUUU. The permittee must complete the test once every calendar quarter and at least 45 days since the previous performance test if not a LEE for HCl. The permittee may skip performance testing in those quarters during which less than 168 boiler operating hours occur, except that a performance test must be conducted at least once every calendar year. **(40 CFR 63.10006(f), 40 CFR 63.10007, 40 CFR 63.10021(d)(1) and (2), 40 CFR Part 63, Subpart UUUUU, Table 5)**

2. Unless an alternate schedule has been approved by the AQD, no less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing. The protocol shall describe the test method(s) and the maximum routine operating conditions, including targets for key operational parameters associated with air pollution control equipment to be monitored and recorded during testing, as applicable. **(40 CFR 63.7, 40 CFR 63.10007, 40 CFR 63.10030(a))**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. During startup, as defined by paragraph (1) of the definition of ''startup'' in 40 CFR 63.10042, the permittee must operate all Continuous Monitoring Systems (CMS). Startup means either the first-ever firing of fuel in a boiler for the purpose of producing electricity, or the firing of fuel in a boiler after a shutdown event for any purpose. Startup ends when any of the steam from the boiler is used to generate electricity for sale over the grid or for any other purpose (including on site use). The permittee must comply with the applicable emission limits at all times except for startup and shutdown periods unless the permittee chooses to use just one set of sorbent traps to demonstrate compliance with the applicable Hg emission limit, then the permittee must comply with the applicable Hg emission limit at all times. The permittee must collect monitoring data during startup periods, as specified in 40 CFR 63.10020(a) and (b). The permittee must keep records during startup periods, as provided in 40 CFR 63.10032 and 40 CFR 63.10021(h). Any fraction of an hour in which startup occurs constitutes a full hour of startup. **(40 CFR Part 63, Subpart UUUUU, Table 3.3)**

2. The permittee must operate all CMS during shutdown. The permittee must also collect appropriate data, and the permittee must calculate the pollutant emission rate for each hour of shutdown for those pollutants for which a CMS is used. The permittee must collect monitoring data during shutdown periods, as specified in 40 CFR 63.10020(a). The permittee must keep records during shutdown periods, as provided in 40 CFR 63.10032 and 40 CFR 63.10021(h). Any fraction of an hour in which shutdown occurs constitutes a full hour of shutdown. **(40 CFR Part 63, Subpart UUUUU, Table 3.4)**

3. If using a CMS to demonstrate continuous compliance, whether through quarterly testing and parametric monitoring or by CEMS or CPMS, with an emission limit or operating limit, the permittee must develop a site-specific monitoring plan and submit this site-specific monitoring plan, if requested, at least 60 days before the initial performance evaluation (where applicable) of the CMS. This requirement also applies to the permittee if the permittee petitions the Administrator for alternative monitoring parameters under 40 CFR 63.8(f). This requirement to develop and submit a site-specific monitoring plan does not apply to affected sources with existing monitoring plans that apply to CEMS and CPMS prepared under Appendix B of 40 CFR Part 60 or 40 CFR Part 75, and that meet the requirements of 40 CFR 63.10010. Using the process described in 40 CFR 63.8(f)(4), the permittee may request approval of monitoring system quality assurance and quality control procedures alternative to those specified in this paragraph of this section and, if approved, include those in the site-specific monitoring plan. The monitoring plan must address the following provisions: **(40 CFR 63.10000(d), 40 CFR 63.10010)**

   a. Installation of the CMS or sorbent trap monitoring system sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device). See 40 CFR 63.10010(a) for further details. For PM CPMS installations, follow the procedures in 40 CFR 63.10010(h).

b. Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems.

c. Schedule for conducting initial and periodic performance evaluations.

d. Performance evaluation procedures and acceptance criteria (e.g., calibrations), including the quality control program in accordance with the general requirements of 40 CFR 63.8(d).

e. On-going operation and maintenance procedures, in accordance with the general requirements of 40 CFR 63.8(c)(1)(ii), (c)(3), and (c)(4)(ii).

f. Conditions that define a CMS that is out of control consistent with 40 CFR 63.8(c)(7)(i) and for responding to out of control periods consistent with 40 CFR 63.8(c)(7)(ii) and (c)(8).

g. On-going recordkeeping and reporting procedures, in accordance with the general requirements of 40 CFR 63.10(c), (e)(1), and (e)(2)(i), or as specifically required under 40 CFR Part 63, Subpart UUUUU.

h. Alternatively, the requirements are considered to be met for a particular CMS or sorbent trap monitoring system if:

i. The CMS or sorbent trap monitoring system is installed, certified, maintained, operated, and quality-assured either according to 40 CFR Part 75, or Appendix A or B of 40 CFR Part 63, Subpart UUUUU; and

ii. The recordkeeping and reporting requirements of 40 CFR Part 75, or Appendix A or B of 40 CFR Part 63, Subpart UUUUU, which pertain to the CMS, are met.

4. If the permittee elects to use a PM CEMS or participate in an averaging plan for PM, total non-Hg HAP metals, or individual metals, the permittee shall keep, in a satisfactory manner, hourly (if applicable) and 30-day rolling average PM, total non-Hg HAP metals, or individual metals (as applicable) emission rate records for each emission unit excluding periods of startup and shutdown. **(40 CFR 63.10010, 40 CFR 63.10021, 40 CFR Part 63, Subpart UUUUU, Table 7)**

5. For any emission unit not relying on the LEE provisions for Hg, the permittee shall keep, in a satisfactory manner, hourly (if applicable) and 30-day rolling average Hg emission rate records for each emission unit excluding periods of startup and shutdown. **(40 CFR 63.10010, 40 CFR 63.10021, 40 CFR Part 63, Subpart UUUUU, Table 7)**

6. The permittee must operate the monitoring system and collect data at all required intervals at all times that the affected EGU is operating, except for required monitoring system quality assurance or quality control activities, including, as applicable, calibration checks and required zero and span adjustments, and any scheduled maintenance as defined in the site-specific monitoring plan. The permittee is required to affect monitoring system repairs in response to monitoring system malfunctions and to return the monitoring system to operation as expeditiously as practicable. **(40 CFR 63.10020(b))**

7. The permittee may not use data recorded during startup or shutdown in calculations used to report emissions, except as otherwise provided in 40 CFR 63.10000(c)(1)(vi)(B) and 40 CFR 63.10005(a)(2)(iii). In addition, data recorded during monitoring system malfunctions or monitoring system out-of-control periods, repairs associated with monitoring system malfunctions or monitoring system out-of-control periods or required monitoring system quality assurance or control activities may not be used in calculations used to report emissions or operating levels. The permittee must use all of the quality-assured data collected during all other periods in assessing the operation of the control device and associated control system. **(40 CFR 63.10020(c))**

8. Failure to collect required quality-assured data during monitoring system malfunctions, monitoring system out-of-control periods, or repairs associated with monitoring system malfunctions or monitoring system out-of-control periods is a deviation from the monitoring requirements. Periods of monitoring system malfunctions or monitoring system out-of-control periods, repairs associated with monitoring system malfunctions or monitoring system out-of-control periods, and required monitoring system quality assurance or quality control activities excluding zero and span checks must be reported as time the monitor was inoperative (downtime) under 63.10(c). **(40 CFR 63.10020(d))**

9. If the permittee uses CEMS to measure SO_2, PM, HCl, HF, or Hg emissions (or sorbent trap monitoring system), except as otherwise provided in 40 CFR 63.10020(c), the permittee must demonstrate continuous compliance by using all quality-assured hourly data recorded by the CEMS (or sorbent trap monitoring system) and other required monitoring systems to calculate the arithmetic average emissions rate in units of the standard on a continuous 30-boiler operating day rolling average basis, updated at the end of each new boiler operating day. Use Equation 8 in 40 CFR 63.10021(b) to determine the 30-boiler operating day rolling average. **(40 CFR 63.10021(a) and (b))**

10. If the permittee uses PM CPMS data to measure compliance with an operating limit in Table 4 of 40 CFR Part 63, Subpart UUUUU, the permittee must record the PM CPMS output data for all periods when the process is operating and the PM CPMS is not out-of-control. The permittee must demonstrate continuous compliance by using all quality-assured hourly data collected by the PM CPMS for all operating data to calculate the arithmetic average emissions rate in units of the operating limit on a continuous 30-boiler operating day rolling average basis, updated at the end of each new boiler operating day. Use Equation 9 in 40 CFR 63.10021(c) to determine the 30-boiler operating day rolling average. **(40 CFR 63.10021(a) and (c))**

11. The permittee must keep the following records:

    a. If the permittee is required to (or elects to) continuously monitor Hg and/or HCl and/or HF and/or PM emissions, or elects to use a PM CPMS, the permittee must keep the records required under Appendix A (Hg) and/or Appendix B (HCl and/or HF) and/or Appendix C (PM) and/or Appendix D (PM CPMS) to 40 CFR Part 63, Subpart UUUUU. If the permittee elects to conduct periodic (*e.g.*, quarterly or annual) performance stack tests, then, for each test completed on or after January 1, 2024, the permittee must keep records of the applicable data elements under 40 CFR 63.7(g). The permittee must also keep records of all data elements and other information in Appendix E to 40 CFR Part 63, Subpart UUUUU that applies. **(40 CFR 63.10032(a))**

    b. A copy of each notification and report that has been submitted to comply with 40 CFR Part 63, Subpart UUUUU, including all documentation supporting any Initial Notification or Notification of Compliance Status, semiannual compliance reports, or quarterly compliance reports that has been submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv). **(40 CFR 63.10032(a)(1))**

    c. Records of performance stack tests, fuel analyses, or other compliance demonstrations and performance evaluations, as required in 40 CFR 63.10(b)(2)(viii). **(40 CFR 63.10032(a)(2))**

    d. For each CEMS and CPMS, the permittee must keep the following records:

        i. Records described in 40 CFR 63.10(b)(2)(vi) through (xi). **(40 CFR 63.10032(b)(1))**

        ii. Previous (i.e., superseded) versions of the performance evaluation plan as required in 40 CFR 63.8(d)(3). **(40 CFR 63.10032(b)(2))**

        iii. Request for alternatives to relative accuracy test for CEMS as required in 40 CFR 63.8(f)(6)(i). **(40 CFR 63.10032(b)(3))**

        iv. The date and time that each deviation started and stopped and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period. **(40 CFR 63.10032(b)(4))**

    e. Records required in Table 7 of 40 CFR Part 63, Subpart UUUUU including records of all monitoring data and calculated averages for applicable PM CPMS operating limits to show continuous compliance with each emission limit and operating limit that applies. **(40 CFR 63.10032(c))**

    f. For each emission unit subject to an emission limit:

        i. The permittee shall keep the monthly fuel use by each emission unit, including the type(s) of fuel and amount(s) used. **(40 CFR 63.10032(d)(1))**

        ii. If the permittee combusts non-hazardous secondary materials that have been determined not to be solid waste pursuant to 40 CFR 241.3(b)(1), the permittee must keep a record which documents how the secondary material meets each of the legitimacy criteria. If the permittee combusts a fuel that has been processed from a discarded non-hazardous secondary material pursuant to 40 CFR 241.3(b)(2), the permittee must keep records as to how the operations that produced the fuel satisfies the definition of processing in 40 CFR 241.2. If the fuel received a non-waste determination pursuant to the petition

process submitted under 40 CFR 241.3(c), the permittee must keep a record which documents how the fuel satisfies the requirements of the petition process. **(40 CFR 63.10032(d)(2))**

g. Regarding startup periods or shutdown periods:

i. If the permittee chooses to rely on paragraph (1) of the definition of ''startup'' in 40 CFR 63.10042 for the emission unit(s), the permittee shall keep records of the occurrence and duration of each startup or shutdown. **(40 CFR 63.10032(f)(1))**

ii. If the permittee chooses to rely on paragraph (2) of the definition of ''startup'' in 40 CFR 63.10042 for the emission unit(s), the permittee shall keep records of:

A. The determination of the maximum clean fuel capacity for each emission unit. **(40 CFR 63.10032(f)(2)(i))**

B. The determination of the maximum hourly clean fuel heat input and of the hourly clean fuel heat input for each emission unit. **(40 CFR 63.10032(f)(2)(ii))**

C. The information required in 40 CFR 63.10020(e). **(40 CFR 63.10032(f)(2)(iii))**

iii. The type(s) and amount(s) of fuel used during each startup or shutdown. **(40 CFR 63.10032(i))**

h. The occurrence and duration of each malfunction of an operation (i.e., process equipment) or the air pollution control and monitoring equipment. **(40 CFR 63.10032(g))**

i. Actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63.10000(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. **(40 CFR 63.10032(h))**

j. If the permittee elects to average emissions consistent with 40 CFR 63.10009, the permittee shall keep a copy of the emissions averaging implementation plan required in 40 CFR 63.10009(g), all calculations required under 40 CFR 63.10009, including daily records of heat input or steam generation, as applicable, and monitoring records consistent with 40 CFR 63.10022. **(40 CFR 63.10032(e))**

12. The permittee shall keep all records in a form suitable and readily available for expeditious review and for at least 5 years after the date of each occurrence, corrective action, report, or record. The records must be kept onsite for at least 2 years and may be kept offsite for the remaining 3 years. **(40 CFR 63.10(b)(1), 40 CFR 63.10033)**

13. The permittee shall maintain on site and submit, if requested by the Administrator, an annual report of periodic performance tune-ups containing the information required by 40 CFR 63.10021(e)(8). The reports shall be in a format acceptable to the Administrator. If requested by the AQD District Supervisor, the permittee shall also submit an annual report with the results of the performance tune-ups. **(40 CFR 63.10021(e)(8))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

4. The permittee shall submit any performance test reports including RATA reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. **(R 336.1213(3)(c), R 336.2001(5))**

5. The permittee shall meet the electronic reporting requirements of Appendix A of 40 CFR Part 63, Subpart UUUUU for each Hg CEMS. **(40 CFR 63.10031(a)(1), 40 CFR Part 63, Subpart UUUUU, Table 8.1)**

6. The permittee shall meet the electronic reporting requirements of Appendix C of 40 CFR Part 63, Subpart UUUUU for each PM CEMS. Electronic reporting of hourly PM emissions data shall begin with the later of the first operating hour on or after January 1, 2024; or the first operating hour after completion of the initial PM CEMS correlation test. These reports are due no later than 30 days after the end of each calendar quarter. **(40 CFR 63.10031(a)(3), 40 CFR Part 63, Subpart UUUUU, Table 8.3)**

7. Prior to January 1, 2024, the permittee shall submit semiannual reporting of the information required below. The report shall be postmarked or received by the Administrator by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. The final semiannual compliance report shall cover the period from July 1, 2023, through December 31, 2023. The report shall include the following: **(40 CFR 63.10031(b), 40 CFR Part 63, Subpart UUUUU, Table 8.9)**

   a. The information required by the Continuous Monitoring Summary Report located in 40 CFR 63.10(e)(3)(vi). **(40 CFR 63.10031(c)(1))**

   b. The total fuel use by each affected source subject to an emission limit, for each calendar month within the semiannual reporting period, including, but not limited to, a description of the fuel, whether the fuel has received a non-waste determination by EPA or the basis for concluding that the fuel is not a waste, and the total fuel usage amount with units of measure. **(40 CFR 63.10031(c)(2))**

   c. Indicate whether any emission unit in FG-MATS-BR burned new types of fuel during the reporting period. If new types of fuel were burned, include the date of the performance test where that fuel was in use. **(40 CFR 63.10031(c)(3))**

   d. Include the date of the most recent tune-up for each emission unit. The date of the tune-up is the date the tune-up provisions specified in 40 CFR 63.10021(e)(6) and (7) were completed. **(40 CFR 63.10031(c)(4))**

   e. If the permittee chooses to comply using paragraph (2) of the definition of ‘‘startup’’ in 40 CFR 63.10042 then for each instance of startup or shutdown:

      i. Include the maximum clean fuel storage capacity and the maximum hourly heat input that can be provided for each clean fuel determined according to the requirements of 40 CFR 63.10032(f). **(40 CFR 63.10031(c)(5)(i))**

      ii. Include the information required to be monitored, collected, or recorded according to the requirements of 40 CFR 63.10020(e). **(40 CFR 63.10031(c)(5)(ii))**

   f. A summary of the results of the annual performance tests and documentation of any operating limits that were reestablished during the test, if applicable. **(40 CFR 63.10031(c)(7))**

   g. A certification. **(40 CFR 63.10031(c)(8))**

   h. If there is a deviation from any emission limit, work practice standard, or operating limit, the permittee must also submit a brief description of the deviation, the duration of the deviation, emissions point identification, and the cause of the deviation. **(40 CFR 63.10031(c)(9), 40 CFR Part 63, Subpart UUUUU, Table 8)**

   i. If there is any process or control equipment malfunction(s) during the reporting period, the permittee must include the number, duration, and a brief description for each type of malfunction which occurred during the semiannual reporting period which caused or may have caused any applicable emission limitation to be exceeded. **(40 CFR 63.10031(c)(10))**

8. Prior to January 1, 2024, all reports and notifications shall be submitted to the EPA in the specified format and at the specified frequency, using the Emissions Collection and Monitoring Plan System (ECMPS) Client Tool. Each PDF version of a stack test report, CEMS RATA report, PM CEMS correlation test report, RRA report, and RCA report must include sufficient information to assess compliance and to demonstrate that the reference method testing was done properly. Note that EPA will continue to accept, as necessary, PDF reports that are being phased out at the end of 2023, if the submission deadlines for those reports extend beyond December 31, 2023. **(40 CFR 63.10031(f)(4) and (6))**

9. Prior to January 1, 2024, for each performance stack test completed, the permittee must submit a PDF test report using the ECMPS Client Tool in accordance with 40 CFR Part 63.10031(f)(6), no later than 60 days after the date on which the testing is completed. **(40 CFR 63.10031(f), 40 CFR Part 63, Subpart UUUUU, Table 8.6)**

10. Prior to January 1, 2024, for each RATA of an Hg, HCl, HF, or SO_2 monitoring system completed and for each PM CEMS correlation test, each relative response audit (RRA) and each response correlation audit (RCA) of a PM CEMS completed prior to that date, the permittee must submit a PDF test report in accordance with 40 CFR Part 63.10031(f)(6), no later than 60 days after the date on which the test is completed. **(40 CFR 63.10031(f)(1), 40 CFR Part 63, Subpart UUUUU, Table 8.7)**

11. Prior to January 1, 2024, for each PM CEMS, an approved HAP metals CEMS, or a PM CPMS, the permittee must submit quarterly PDF reports in accordance with 40 CFR Part 63.10031(f)(6), which include all of the 30-boiler operating day rolling average emission rates derived from the CEMS data or the 30-boiler operating day rolling average responses derived from the PM CPMS data (as applicable). The quarterly reports are due within 60 days after the reporting periods ending on March 31, June 30, September 30, and December 31. Submission of these quarterly reports in PDF files shall end with the report that covers the fourth calendar quarter of 2023. **(40 CFR 63.10031(f)(2), 40 CFR Part 63, Subpart UUUUU, Table 8.8)**

12. For PM CEMS correlation tests completed on or after November 9, 2020, but prior to January 1, 2024, the permittee shall submit the report, in a PDF file using the ECMPS Client Tool, no later than 60 days after the date on which the test is completed. **(40 CFR 63.10031(j), 40 CFR Part 63, Subpart UUUUU, Table 8.13)**

13. Starting with the first calendar quarter of 2024, the permittee must use the ECMPS Client Tool to submit quarterly electronic compliance reports. Each quarterly compliance report shall include the applicable data elements in sections 2 through 13 of Appendix E of 40 CFR Part 63, Subpart UUUUU and submitted in XML format. For each stack test summarized in the compliance report, the permittee must also submit the applicable reference method information in sections 17 through 31 of Appendix E of 40 CFR Part 63, Subpart UUUUU. The compliance reports and associated Appendix E information must be submitted no later than 60 days after the end of each calendar quarter. The permittee shall include in the quarterly compliance reports the applicable data elements in section 13 of Appendix E of 40 CFR Part 63, Subpart UUUUU for any “deviation” (as defined in 40 CFR 63.10042 and elsewhere in 40 CFR Part 63, Subpart UUUUU) that occurred during the calendar quarter. If there were no deviations, the permittee must include a statement to that effect in the quarterly compliance report. **(40 CFR 63.10031(d), 40 CFR 63.10031(f)(4), 40 CFR 63.10031(g))**

14. If an affected source submits a semiannual compliance report pursuant to 40 CFR Part 63.10031(c) and (d), or two quarterly compliance reports covering the appropriate calendar half pursuant to 40 CFR Part 63.10031(g), along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A), and the compliance report(s) includes all required information concerning deviations from any emission limit, operating limit, or work practice requirement in this subpart, submission of the compliance report(s) satisfies any obligation to report the same deviations in the semiannual monitoring report. Submission of the compliance report(s) does not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority. **(40 CFR 63.10031(e))**

15. On or after January 1, 2024, for each performance stack test completed, the permittee shall submit the applicable reference method information required in sections 17 through 31 of Appendix E of 40 CFR Part 63, Subpart UUUUU along with the quarterly compliance report for the calendar quarter in which the test was completed. **(40 CFR 63.10031(f), 40 CFR Part 63, Subpart UUUUU, Table 8.6)**

16. On or after January 1, 2024, for each SO_2 or Hg RATA completed the permittee must submit the applicable reference method information in sections 17 through 31 of Appendix E of 40 CFR Part 63, Subpart UUUUU prior to or concurrent with the relevant quarterly emissions report. For HCl or HF RATAs, and for correlation tests, RRAs, and RCAs of PM CEMS that are completed on or after January 1, 2024, submit the Appendix E reference method information together with the summarized electronic test results, in accordance with section 11.4 of Appendix B of 40 CFR Part 63, Subpart UUUUU or section 7.2.4 of Appendix C of 40 CFR Part 63, Subpart UUUUU, as applicable. **(40 CFR 63.10031(f)(1), 40 CFR Part 63, Subpart UUUUU, Table 8.7)**

17. Beginning with the first calendar quarter of 2024, for each PM CEMS, an approved HAP metals CEMS, or a PM CPMS, the compliance averages shall no longer be reported separately, but shall be incorporated into the quarterly compliance reports. In addition to the compliance averages for PM CEMS, PM CPMS, and/or HAP

metals CEMS, the quarterly compliance reports must also include the 30-boiler operating day rolling average emission rates for Hg, HCl, HF, and/or SO_2, if the permittee has elected to (or are required to) continuously monitor these pollutants. Further, if the EGU or common stack is in an averaging plan, the quarterly compliance reports must identify all of the EGUs or common stacks in the plan and must include all of the 30-group boiler operating day rolling weighted average emission rates (WAERs) for the averaging group. **(40 CFR 63.10031(f)(2), 40 CFR Part 63, Subpart UUUUU, Table 8.8)**

18. For PM CEMS correlation tests completed on or after January 1, 2024, the permittee must submit the test results electronically, according to section 7.2.4 of Appendix C of 40 CFR Part 63, Subpart UUUUU, together with the applicable reference method data in sections 17 through 31 of Appendix E of 40 CFR Part 63, Subpart UUUUU. The applicable data elements in 40 CFR Part 63.10031(f)(6)(i) through (xii) must be entered into ECMPS with the PDF report. **(40 CFR 63.10031(j), 40 CFR Part 63, Subpart UUUUU, Table 8.13)**

19. If the permittee elects to demonstrate compliance using a PM CPMS or an approved HAP metals CEMS, the permittee must submit quarterly reports of the QA/QC activities (*e.g.*, calibration checks, performance audits), in a PDF file, beginning with a report for the first quarter of 2024, if the PM CPMS or HAP metals CEMS is used for the compliance demonstration in that quarter. Otherwise, submit a report for the first calendar quarter in which the PM CPMS or HAP metals CEMS is used to demonstrate compliance. These reports are due no later than 60 days after the end of each calendar quarter. The applicable data elements in 40 CFR Part 63.10031(f)(6)(i) through (xii) must be entered into ECMPS with the PDF report. **(40 CFR 63.10031(k), 40 CFR Part 63, Subpart UUUUU, Table 8.14)**

20. On and after January 1, 2024, the permittee shall report the tune-up date electronically in the quarterly compliance report, in accordance with 40 CFR 63.10031(g) and section 10.2 of Appendix E of 40 CFR Part 63, Subpart UUUUU. The tune-up report date is the date when tune-up requirements in 40 CFR 63.10021(e)(6) and (7) are completed. **(40 CFR 63.10021(e)(9))**

See Appendix 8-1 BR

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. For each emission unit or emissions averaging group complying with an emission limit as specified in Table 2 of 40 CFR Part 63, Subpart UUUUU, the permittee may request to switch from a mass per heat input to a mass per gross output limit (or vice versa).
   a. The permittee may switch from a mass per heat input to a mass per gross output limit (or vice-versa), provided that:
      i. The permittee submits a request that identifies for each emission unit or emissions averaging group involved in the proposed switch both the current and proposed emission limit. **(40 CFR 63.10030(e)(7)(iii)(A)(1))**
      ii. The request arrives to the Administrator at least 30 calendar days prior to the date that the switch is proposed to occur. **(40 CFR 63.10030(e)(7)(iii)(A)(2))**
      iii. The request demonstrates through performance stack test results or valid CMS data, obtained within 45 days prior to the date of the submission, demonstrating that each EGU or EGU emissions averaging group is in compliance with both the mass per heat input limit and the mass per gross output limit. **(40 CFR 63.10030(e)(7)(iii)(A)(3))**
      iv. The permittee revises and submits all other applicable plans, e.g., monitoring and emissions averaging, with the request. **(40 CFR 63.10030(e)(7)(iii)(A)(4))**
      v. The permittee maintains records of all information regarding the choice of emission limits. **(40 CFR 63.10030(e)(7)(iii)(A)(5))**

b. The permittee may begin to use the revised emission limits starting in the next reporting period, after receipt of written acknowledgement from the Administrator of the switch. **(40 CFR 63.10030(e)(7)(iii)(B))**

c. From the submission of the request until start of the next reporting period after receipt of written acknowledgement from the Administrator of the switch, the permittee shall demonstrate compliance with both the mass per heat input and mass per gross output emission limits for each pollutant for each emission unit or emissions averaging group. **(40 CFR 63.10030(e)(7)(iii)(C))**

2. The permittee may switch from paragraph (1) of the definition of ‘‘startup’’ in 40 CFR 63.10042 to paragraph (2) of the definition of ‘‘startup’’ (or vice-versa), provided that:

   a. The permittee submits a request that identifies for each emission unit or emissions averaging group involved in the proposed switch both the current definition of ‘‘startup’’ relied on and the proposed definition the permittee plans to rely on. **(40 CFR 63.10030(e)(8)(iii)(A))**

   b. The request arrives to the Administrator at least 30 calendar days prior to the date that the switch is proposed to occur. **(40 CFR 63.10030(e)(8)(iii)(B))**

   c. The permittee revises and submits all other applicable plans, e.g., monitoring and emissions averaging, with the submission. **(40 CFR 63.10030(e)(8)(iii)(C))**

   d. The permittee maintains records of all information regarding the choice of the definition of ‘‘startup.’’ **(40 CFR 63.10030(e)(8)(iii)(D))**

   e. The permittee begins to use the revised definition of ‘‘startup’’ in the next reporting period after receipt of written acknowledgement from the Administrator of the switch. **(40 CFR 63.10030(e)(8)(iii)(E))**

3. If any emission unit(s) cease(s) to operate in a manner that causes the unit(s) to meet the definition of an EGU subject to 40 CFR Part 63, Subpart UUUUU, the permittee must submit the notification in 40 CFR 63.10000(i)(2) no less than 30 days prior to when the EGU will cease complying with 40 CFR Part 63, Subpart UUUUU. **(40 CFR 63.10000(i)(2), 40 CFR 63.10030(f))**

4. The permittee shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants as specified in 40 CFR Part 63, Subparts A and UUUUU. **(40 CFR Part 63, Subparts A and UUUUU)**

FG-ISLANDS-BR
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Belle River DSI and ACI sorbents delivered and conveyed pneumatically to the appropriate storage silo. The load-in conveying air discharges through a high efficiency bin vent filter or dust collector on each silo.

Emission Units: EU-BLR01-DSI_SILO1-BR, EU-BLR01-DSI_SILO2-BR, EU-BLR02-DSI_SILO1-BR, EU-BLR02-DSI_SILO2-BR, EU-BLR01-ACI_SILO-BR, EU-BLR02-ACI_SILO-BR

POLLUTION CONTROL EQUIPMENT

Bin vent filters or dust collectors on each emission unit

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. Visible Emissions	7 percent opacity[2]	6-minute average	Each individual bin vent filter or dust collector for FG-ISLANDS-BR	SC V.3	**R 336.1301**
2. PM	0.004 gr/dscf[2]	Hourly	Each individual bin vent filter or dust collector for FG-ISLANDS-BR	SC V.1	**R 336.1331**
3. PM2.5	0.017 pph[2]	Hourly	Each individual bin vent filter or dust collector for FG-ISLANDS-BR	SC V.2	**R 336.2803** **R 336.2804**
4. PM10	0.034 pph[2]	Hourly	Each individual bin vent filter or dust collector for EU-BLR01-DSI_SILO1-BR EU-BLR01-DSI_SILO2-BR EU-BLR02-DSI_SILO1-BR EU-BLR02-DSI_SILO2-BR	SC V.2	**R 336.2803** **R 336.2804**
5. PM10	0.068 pph[2]	Hourly	Each individual bin vent filter or dust collector for EU-BLR01-ACI_SILO-BR EU-BLR02-ACI_SILO-BR	SC V.2	**R 336.2803** **R 336.2804**

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate FG-ISLANDS-BR unless a program for continuous Fugitive Dust Control for all material handling operations is implemented, updated as necessary, and kept at the facility. If at any time the fugitive dust control program fails to address or inadequately addresses an event, the permittee shall amend the fugitive dust control program within 45 days after such an event occurs. The permittee shall also amend the fugitive dust control program within 45 days, if new equipment is installed or upon request from the AQD District Supervisor. The permittee shall submit the fugitive dust control program and any amendments to the fugitive dust control program to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the fugitive dust control program or amended fugitive dust control program

shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits.[2] **(R 336.1371, R 336.1372, R 336.2803, R 336.2804)**

2. The permittee shall not operate FG-ISLANDS-BR unless a malfunction abatement plan (MAP), as described in Rule 911(2), for operation of the process and emission control equipment is implemented, updated as necessary, and kept at the facility. If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the AQD District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits.[2] **(R 336.1331, R 336.1910, R 336.1911, R 336.2803, R 336.2804)**

3. The permittee shall not operate FG-ISLANDS-BR for more than 12 hours per day, as determined on a daily basis.[2] **(R 336.2803, R 336.2804)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate any portion of FG-ISLANDS-BR unless the associated enclosures or fabric filters are installed, maintained and operated in a satisfactory manner. Satisfactory manner includes operating and maintaining each control device in accordance with an approved MAP for FG-ISLANDS-BR as required in SC III.2.[2] **(R 336.1910, R 336.1911, R 336.2803, R 336.2804)**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall verify the PM emission rates from each emission unit of FG-ISLANDS-BR or a representative emission unit by testing at owner's expense, in accordance with Department requirements, as requested by the AQD District Supervisor. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The final plan must be approved by the AQD prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.[2] **(R 336.1301, R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2801)**

2. The permittee shall verify the PM10 and PM2.5 emission rates from each emission unit of FG-ISLANDS-BR or a representative emission unit by testing at owner's expense, in accordance with Department requirements, as requested by the AQD District Supervisor. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The final plan must be approved by the AQD prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.[2] **(R 336.2001, R 336.2003, R 336.2004, R 336.2801, R 336.2803, R 336.2804)**

3. Annually, the permittee shall conduct a Reference Method 9 visible emissions readings of each emission unit of FG-ISLANDS-BR, at a minimum of once per calendar year, during maximum routine operating conditions.[2] **(R 336.1301, R 336.1910, R 336.1911)**

4. The permittee shall verify PM, PM10, and PM2.5 emission rates from FG-ISLANDS-BR by testing at owner's expense, in accordance with the Department requirements, as requested by the AQD District Supervisor. Testing shall be performed using an approved EPA Method listed in:

Pollutant	Test Method Reference
PM	40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules
PM10/PM2.5	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**

5. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor not less than 30 days before testing of the time and place performance tests will be conducted. **(R 336.1213(3))**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall perform and document non-certified visible emissions observations as required in Emission Limit SC I.1 on a daily basis when FG-ISLANDS-BR is operating. If during the observation there are any visible emissions detected from an emission point, an EPA Method 9 certified visible emissions observation shall be performed. Records of the non-certified visible emissions observations, EPA Method 9 observations that are performed, the reason for any visible emissions observed, and any corrective actions taken shall be kept on file and in a format acceptable to the AQD.[2] **(R 336.1910, R 336.1911)**

2. The permittee shall monitor and record, the hours of operation for FG-ISLANDS-BR on a daily basis.[2] **(R 336.1205, R 336.1224, R 336.1225, R 336.1301, R 336.1331, R 336.1602, R 336.1702, R 336.1901, R 336.1910, R 336.2802, 40 CFR 52.21)**

3. The permittee shall maintain a log of all inspections, maintenance activities, and repairs made to the process and emission control equipment. Maintenance records for the process and emission control equipment system shall be consistent with the Malfunction Abatement and Preventative Maintenance Plan. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1213(3))**

4. The permittee shall maintain records of the activities performed in accordance with the fugitive dust control plan for FG-ISLANDS-BR from all material handling operations. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1213(3))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

See Appendix 8-1 BR

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-BLR01-DSI_SILO1-BR*	15.6 x 15.6[2]	80.5[2]	**R 336.2803** **R 336.2804**

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
2. SV-BLR01-DSI_SILO2-BR*	15.6 x 15.6[2]	80.5[2]	**R 336.2803** **R 336.2804**
3. SV-BLR02-DSI_SILO1-BR*	15.6 x 15.6[2]	80.5[2]	**R 336.2803** **R 336.2804**
4. SV-BLR02-DSI_SILO2-BR*	15.6 x 15.6[2]	80.5[2]	**R 336.2803** **R 336.2804**
5. SV-BLR01-ACI_SILO-BR*	15.6 x 15.6[2]	57.7[2]	**R 336.2803** **R 336.2804**
6. SV-BLR02-ACI_SILO-BR*	15.6 x 15.6[2]	57.7[2]	**R 336.2803** **R 336.2804**

*Stack/Vents discharged non-vertically.

IX. OTHER REQUIREMENT(S)

NA

Footnotes:
[1] This condition is state only enforceable and was established pursuant to Rule 201(1)(b).
[2] This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

E. NON-APPLICABLE REQUIREMENTS

At the time of the ROP issuance, the AQD has determined that no non-applicable requirements have been identified for incorporation into the permit shield provision set forth in the General Conditions in Part A pursuant to Rule 213(6)(a)(ii).

APPENDICES

Appendix 1-1-A BR. Acronyms and Abbreviations

Common Acronyms		Pollutant / Measurement Abbreviations	
AQD	Air Quality Division	acfm	Actual cubic feet per minute
BACT	Best Available Control Technology	BTU	British Thermal Unit
CAA	Clean Air Act	°C	Degrees Celsius
CAM	Compliance Assurance Monitoring	CO	Carbon Monoxide
CEM	Continuous Emission Monitoring	CO_2e	Carbon Dioxide Equivalent
CEMS	Continuous Emission Monitoring System	dscf	Dry standard cubic foot
CFR	Code of Federal Regulations	dscm	Dry standard cubic meter
COM	Continuous Opacity Monitoring	°F	Degrees Fahrenheit
Department/ department	Michigan Department of Environment, Great Lakes, and Energy	gr	Grains
		HAP	Hazardous Air Pollutant
EGLE	Michigan Department of Environment, Great Lakes, and Energy	Hg	Mercury
		hr	Hour
EU	Emission Unit	HP	Horsepower
FG	Flexible Group	H_2S	Hydrogen Sulfide
GACS	Gallons of Applied Coating Solids	kW	Kilowatt
GC	General Condition	lb	Pound
GHGs	Greenhouse Gases	m	Meter
HVLP	High Volume Low Pressure*	mg	Milligram
ID	Identification	mm	Millimeter
IRSL	Initial Risk Screening Level	MM	Million
ITSL	Initial Threshold Screening Level	MW	Megawatts
LAER	Lowest Achievable Emission Rate	NMOC	Non-methane Organic Compounds
MACT	Maximum Achievable Control Technology	NO_x	Oxides of Nitrogen
MAERS	Michigan Air Emissions Reporting System	ng	Nanogram
MAP	Malfunction Abatement Plan	PM	Particulate Matter
MSDS	Material Safety Data Sheet	PM10	Particulate Matter equal to or less than 10 microns in diameter
NA	Not Applicable		
NAAQS	National Ambient Air Quality Standards	PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter
NESHAP	National Emission Standard for Hazardous Air Pollutants	pph	Pounds per hour
		ppm	Parts per million
NSPS	New Source Performance Standards	ppmv	Parts per million by volume
NSR	New Source Review	ppmw	Parts per million by weight
PS	Performance Specification	%	Percent
PSD	Prevention of Significant Deterioration	psia	Pounds per square inch absolute
PTE	Permanent Total Enclosure	psig	Pounds per square inch gauge
PTI	Permit to Install	scf	Standard cubic feet
RACT	Reasonable Available Control Technology	sec	Seconds
ROP	Renewable Operating Permit	SO_2	Sulfur Dioxide
SC	Special Condition	TAC	Toxic Air Contaminant
SCR	Selective Catalytic Reduction	Temp	Temperature
SDS	Safety Data Sheet	THC	Total Hydrocarbons
SNCR	Selective Non-Catalytic Reduction	tpy	Tons per year
SRN	State Registration Number	µg	Microgram
TEQ	Toxicity Equivalence Quotient	µm	Micrometer or Micron
USEPA/EPA	United States Environmental Protection Agency	VOC	Volatile Organic Compounds
		yr	Year
VE	Visible Emissions		

*For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 psig.

Appendix 1-1-B BR. Definitions

1-1 B. Definitions Applicable to Specified Permit Conditions

The following definitions apply to permit conditions originally established in the consent decree settling "U.S. v DTE Energy and Detroit Edison Company, Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, 2020." This Appendix is also federally enforceable pursuant to Section 324.5503(b) of the Natural Resources and Environmental Protection Act, 1994 Act 451, as amended, Rule 201(1)(a), and Rule 214(a), and will remain in effect after termination of the consent decree. (Act 451, Section 324.5503(b))

For the purpose of the Consent Decree, every term expressly defined by this Section shall have the meaning given that term herein. Every other term used in the Consent Decree that is also a term used under the Act or in a regulation implementing the Act, including regulations approved as part of the Michigan SIP, shall mean in the Consent Decree what such term means under the Act or those regulations.[2] **(R 336.1201**; **Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4)**

1. A "30-Day Rolling Average Emission Rate" for a Unit shall be expressed as lb/MMBTU and calculated in accordance with the following procedure: First, sum the total pounds of the pollutant in question emitted from the Unit during an Operating Day and the previous 29 Operating Days; second, sum the total heat input to the Unit in MMBTU during the Operating Day and the previous 29 Operating Days; and third, divide the total number of pounds of the pollutant emitted during the 30 Operating Days by the total heat input during the 30 Operating Days. A new 30-Day Rolling Average Emission Rate shall include all emissions of the applicable pollutant that occur during all periods within any Operating Day, including emissions from startup, shutdown, and malfunction.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4a)**
2. A "24-Hour Rolling Average Emission Rate" for a Unit shall be expressed as lb/MMBTU and calculated in accordance with the following procedure: First, sum the total pounds of the pollutant emitted from the Unit during an operating hour and the previous 23 operating hours; second, sum the total heat input to the Unit in MMBTU during the operating hour and the previous 23 operating hours; and third, divide the total number of pounds of the pollutant emitted during the 24 operating hours by the total heat input during the 24 operating hours. A new 24-Hour Rolling Average Emission Rate shall be calculated for each new operating hour.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4b)**
3. "Baghouse" means a full stream (fabric filter or membrane) particulate emissions control device. In this context, full stream means that it captures the entire stream of exhaust gas with no concurrent bypass.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4c)**
4. "Belle River" means DTE's Belle River Power Plant consisting of two electric utility steam-generating units designated as Unit 1 (638 MW) and Unit 2 (602 MW) and related equipment, located in East China Township, Michigan.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4d)**
5. "Boiler Island" means a Unit's (a) fuel combustion system (including bunker, coal pulverizers, crusher, stoker, and fuel burners); (b) combustion air system; (c) steam generating system (firebox, boiler tubes, and walls); and (d) draft system (excluding the stack), all as further described in "Interpretation of Reconstruction," by John B. Rasnic, U.S. EPA (November 25, 1986) and attachments thereto. **(2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4e)**
6. "Capital Expenditures" means all capital expenditures, as defined by Generally Accepted Accounting Principles ("GAAP"), as those principles exist at the Date of Entry of this Consent Decree, excluding the cost of installing or upgrading pollution control devices. **(2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4f)**
7. "CEMS" or "Continuous Emission Monitoring System" means, for obligations involving the monitoring of NO_X, SO_2, and PM emissions under the Consent Decree, the devices defined in 40 CFR 72.2 and installed and

maintained as required by 40 CFR Part 75.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4g)**

8. "Clean Air Act", "CAA", or "Act" means the federal Clean Air Act, 42 U.S.C. §§ 7401-7671q, and its implementing regulations.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4h)**

9. "Complaints" shall mean the amended complaints filed by the United States and Sierra Club in this case on April 9, 2014, and May 22, 2014, respectively.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4i)**

10. "Consent Decree" means Consent Decree ("U.S. v DTE Energy and Detroit Edison Company, Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, 2020") and its Appendices.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4j)**

11. "Continuously Operate" or "Continuous Operation" means that when a pollution control technology or combustion control is required to be continuously used at a Unit pursuant to the Consent Decree (including, but not limited to, SCR, FGD, ESP, Baghouse, or Low NO_X Combustion System), it shall be operated at all times such Unit is in operation (except as otherwise provided by Section XII (Force Majeure)), consistent with the technological limitations, manufacturers' specifications, good engineering and maintenance practices, and good air pollution control practices for minimizing emissions (as defined in 40 CFR 60.11(d)) for such equipment and the Unit.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4k)**

12. "Date of Entry" means the date the Consent Decree is entered by the Court or a motion to enter the Consent Decree is granted, whichever occurs first, as recorded on the Court's docket.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4l)**

13. "Date of Lodging" means the date this Consent Decree is filed for lodging with the Clerk of the Court for the United States District Court for the Eastern District of Michigan. **(2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4m)**

14. "Day" means calendar day unless otherwise specified in the consent decree.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4n)**

15. "Defendants" or "DTE" mean DTE Energy and Detroit Edison Company.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4o)**

16. "Electrostatic Precipitator" or "ESP" means a device for removing particulate matter from combustion gases by imparting an electric charge to the particles and then attracting them to a metal plate or screen of opposite charge before the combustion gases are exhausted to the atmosphere.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4p)**

17. "Emission Rate" for a given pollutant means the number of pounds of that pollutant emitted per million British thermal units of heat input (lb/MMBTU), measured in accordance with the Consent Decree.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4q)**

18. "Environmental Mitigation Project" or "Project" means the project set forth in Section VI (Environmental Mitigation Project) and Appendix A of this Consent Decree, and any other project undertaken for the purpose of fulfilling Defendants' obligations under Section VI and Appendix A and approved for that purpose by EPA pursuant to Section X (Review and Approval of Submittals). **(2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4r)**

19. "EPA" means the United States Environmental Protection Agency. **(2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4s)**

20. "Flue Gas Desulfurization System" or "FGD" means a pollution control device that removes sulfur compounds from a flue gas stream, including an absorber or absorbers utilizing lime or limestone, or a sodium based material, for the reduction of SO_2 emissions.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4t)**

21. "Fossil Fuel" means any hydrocarbon fuel, including but not limited to coal, metallurgical coke, petroleum coke, petroleum oil, natural gas, or any other fuel made or derived from the foregoing.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4u)**

22. "Greenhouse Gases" means the air pollutant defined at 40 CFR 86.1818-12(a) as of the Date of Lodging of this Consent Decree as the aggregate group of six greenhouse gases: carbon dioxide, nitrous oxide, methane, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. This definition continues to apply even if 40 CFR 86.1818-12(a) is subsequently revised, stayed, vacated or otherwise modified. **(2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4v)**

23. "KW means Kilowatt or one thousand watts net.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4w)**

24. "lb/MMBTU" means pounds of a pollutant per million British thermal units of heat input.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4x)**

25. "Low NO_X Combustion System" means burners and associated combustion air control equipment, including Overfire Air (if installed at the Unit), which control mixing characteristics of Fossil Fuel and oxygen, thus restraining the formation of NO_X during combustion of furl in the boiler.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4y)**

26. "Malfunction" means any sudden, infrequent, and no reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not Malfunctions.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4z)**

27. "MW" means a megawatt or one million units.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4aa)**

28. "Michigan SIP" means the Michigan State Implementation Plan, and any amendments thereto, as approved by EPA pursuant to Section 110 of the Act, 42 U.S.C. §7410.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4bb)**

29. "Monroe" means DTE's Monroe Power Plant consisting of four electric utility steam-generating unites designated as Unit 1 (764 MW), Unit 2 (772 MW), Unit 3 (773 MW), and Unit 4 (765 MW) and related equipment, located in Monroe, Michigan.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4cc)**

30. "Natural Gas" means natural gas received directly or indirectly through a connection to an interstate pipeline transporting natural gas governed by a tariff approved by the Federal Energy Regulatory Commission. The Parties recognize that Natural Gas is expected to contain no more than 0.5 grains of sulfur per 100 standard cubic feet of Natural Gas. **(2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4dd)**

31. "Netting" shall mean the process of determining whether a particular physical change or change in the method of operation of a major stationary source results in a "net emissions increase" or "net significant emissions increase" as those terms are defined at 40 CFR 52.21(b)(3)(i) and (ii) and in the Michigan SIP. **(2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4ee)**

32. "NO_X" means oxides of nitrogen.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4ff)**

33. "NO_X Allowance" means an authorization to emit a specified amount of NO_X that is allocated or issued under an emissions trading or marketable permit program of any kind established under the Clean Air Act or the Michigan SIP, provided, however, that with respect to any such program that first applies to emissions occurring after December 31, 2018, a "NO_X Allowance" shall include an allowance created and allocated under such program only for control periods starting on or after the first anniversary of the Date of Entry of the Consent Decree.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4gg)**

34. "Nonattainment NSR" means the new source review program within the meaning of Part D of Subchapter I of the Act, 42 U.S.C. §§ 7501-7515 and 40 CFR Part 51, and corresponding provisions of the federally enforceable Michigan SIP. **(2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4hh)**

35. "Operating Day" or "Operating Days" means any calendar day(s) during which a Unit fires any fuel.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4ii)**

36. "Operating Hour" or "Operating Hours" means any clock hour during which a Unit first any fuel.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4jj)**

37. "Operational or Ownership Interest" means part or all of DTE's legal or equitable operational or ownership interest in any operating, non-Retired Unit. The Parties recognize that under this definition, Section XVII (Sales or Transfers or Operational or Ownership Interests) of the Consent Decree does not apply to salvage, scrap, or demolition of a Retired Unit.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4kk)**

38. "Over-Fire Air" or "OFA" means and in-furnace staged combustion control to reduce NO_X emissions.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4ll)**

39. "Parties" means the United States of America, the Sierra Club, and Defendants. "Party" means one of the named "Parties."[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4mm)**

40. "PM" means total filterable particulate matter.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4nn)**

41. "PM CEMS" or "PM Continuous Emission Monitoring System" means the equipment that samples, analyzes, measures, and provides, by readings taken at frequent intervals, an electronic or paper record of PM emissions.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4oo)**

42. "PM Control Device" means any device, including an ESP or Baghouse, which reduces emissions of PM.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4pp)**

43. "PM Emission Rate" means the number of pounds of PM emitted per million BTU of heat input (lb/MMBTU).[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4qq)**

44. "Prevention of Significant Deterioration" or "PSD" means the new source review program within the meaning of Part C of Subchapter I of the Clean Air Act, 42 U.S.C. §§ 7470-7492 and 40 CFR Part 52, and corresponding provisions of the federally enforceable Michigan SIP. **(2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4rr)**

45. "Project Dollars" means Defendants' expenditures and payments incurred or made in carrying out the Environmental Mitigation Project identified in Section VI (Environmental Mitigation Project) of this Consent Decree to the extent that such expenditures or payments both: (a) comply with the requirements set forth in Section VI (Environmental Mitigation Project) and Appendix A of this Consent Decree, and (b) constitute Defendants' direct payments for such project or Defendants' external costs for contractors, vendors, and equipment. **(2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4ss)**

46. "Refuel" or "Refueled" means the modification of a Unit such that the modified unit generates electricity solely through the combustion of Natural Gas. Nothing herein shall prevent the reuse of any equipment at any existing Unit provided that the unit owner(s) applies for, and obtains, all required permits, including, if applicable, a PSD or Nonattainment NSR permit.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4tt)**

47. "Repower" or "Repowered" means the removal and replacement of the Unit components such that the replaced unit generates electricity solely through the combustion of Natural Gas through the use of a combined cycle combustion turbine technology. Nothing herein shall prevent the reuse of any equipment at any existing unit or new emissions unit, provided that the Unit owner(s) applies for, and obtains, all required permits, including, if applicable, a PSD or Nonattainment NSR permit.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4uu)**

48. "Retire", "Retired", or "Retirement" means to permanently shut down and cease to operate the Unit, and to comply with applicable state and federal requirements for permanently ceasing operation of the Unit, including removing the Unit from Michigan's air emissions inventory, and amending all applicable permits so as to reflect the permanent shutdown status of each Unit. The terms "Retire", "Retired", or "Retirement" shall not be construed to apply to electric synchronization motors, capacitors, switch gears, transformers, interconnection equipment and other non-combustion equipment and activities at the sites of System Units, regardless of whether such equipment was part of the System Units.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4vv)**

49. "Retrofit" means that the Unit must install and Continuously Operate both an FGD and an SCR, or equivalent pollution control technologies approved by EPA, and achieve and maintain the following 30-Day Rolling Average Emission Rates: NO_X: 0.080 lb/MMBTU, SO_2: 0.060 lb/MMBTU.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4ww)**

50. "River Rouge" means Defendants' River Rouge Power Plant consisting of one electric utility steam-generating unit designated as Unit 3 (276 MW) and related equipment, located in River Rouge, Michigan.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4xx)**

51. "SCR" or "Selective Catalytic Reduction" means an air pollution control device for reducing NO_X emissions in which ammonia ("NH_3") is added to the flue gas and then passed through layers of a catalyst material. The ammonia and NO_X in the flue gas stream react on the surface of the catalyst, forming nitrogen ("N_2") and water vapor.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4yy)**

52. "SO_2" means sulfur dioxide.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4zz)**

53. "SO_2 Allowance" means an authorization to emit a specified amount of SO_2 that is allocated or issued under an emissions trading or marketable permit program of any kind established under the Clean Air Act or the Michigan SIP; provided, however, that with respect to any such program that first applies to emissions occurring after December 31, 2018, an "SO_2 Allowance" shall include an allowance created and allocated under such program only for control period starting on or after the first anniversary of the Date of Entry of the Consent Decree.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4aaa)**

54. "State" means the State of Michigan.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4bbb)**

55. "St. Clair" means, for purposes of this Consent Decree, Defendants' St. Clair Power Plant consisting of five electric utility steam-generating units designated as Unit 1 (152 MW), Unit 2 (160 MW), Unit 3 (165 MW), Unit 6 (319 MW) and Unit 7 (452 MW) and related equipment, located in East China Township, Michigan.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4ccc)**

56. "Surrender" or "Surrender of Allowances" means, for purposes of SO_2 and NO_X Allowances, permanently surrendering allowances from the accounts administered by EPA and the State of Michigan, if applicable, so that such allowances can never be used thereafter to meet any compliance requirements under the CAA, a state implementation plan, or the Consent Decree.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4ddd)**

57. "System" means the Belle River, Monroe, River Rouge, St. Clair, and Trenton Channel facilities as defined herein.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4eee)**

58. "System-Wide Annual Tonnage Limitation" for a pollutant means the sum of the tons of the pollutant emitted from all the Units in Defendants' System including, without limitations, all tons of that pollutant emitted during periods of startup, shutdown, and Malfunction, in the designated year.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4fff)**

59. "Title V Permit" means the permit required of major sources pursuant to Subchapter V of the Act, 42 U.S.C. §§ 7661-7661e.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4ggg)**

60. "Trenton Channel" means Defendants' Trenton Channel Power Plant consisting of one electric utility steam-generating unit designated as Unit 9 (536 MW) and related equipment, located in Trenton, Michigan.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4hhh)**

61. "Unit" means collectively, the coal pulverizer, stationary equipment that feeds coal to the boiler, the boiler that produces steam for the steam turbine, the steam turbine, the generator, the equipment necessary to operate the generator, steam turbine, and boiler, and all ancillary equipment, including pollution control equipment and systems necessary for production of electricity. An electric steam generating station may be comprised of one or more Units.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 4iii)**

Appendix 2-1 BR. Schedule of Compliance

Compliance Plan

The permittee outlined the details of achieving compliance in a narrative compliance plan. The details of the compliance plan are outlined below.

Pursuant to Paragraph 91 of Civil Action No. 2:10-cv-13101 (ECF No. 282) filed on July 22, 2020, DTE "shall apply for amendments of their Title V Permits, to include a schedule for all Unit-specific, plant-specific, and System-specific performance, operational, maintenance, and control technology requirements established by this Consent Decree: (a) all applicable definitions from Section III and (b) all Compliance Requirements contained in Section IV."

To satisfy this requirement, DTE proposes to add a Schedule of Compliance to Appendix 2 of Section 1 of MI-ROP-B2796-2024.

Schedule of Compliance

The following schedule of compliance conforms with the provisions of Rule 119(a) and Rule 213(4).

The permittee shall retrofit, refuel or repower EU-BOILER1-BR and EU-BOILER2-BR by no later than December 31, 2030. The permittee shall notify the EPA in writing which option they elect to use for EU-BOILER1-BR and EU-BOILER2-BR at least 365 days before the compliance deadline. If the permittee elects to retrofit EU-BOILER1-BR and EU-BOILER2-BR, the permittee shall install and continuously operate both an FGD and an SCR, or equivalent pollution control technologies approved by the EPA, and shall achieve and maintain the following 30-Day Rolling Average Emission Rates for NO_X (0.080 lb/MMBTU) and SO_2 (0.060 lb/MMBTU) as specified in the definition of "retrofit" in Appendix 1-1-B. If the permittee retires EU-BOILER1-BR or EU-BOILER2-BR by the compliance date, the permittee shall have no further obligations under 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan for the applicable emission unit(s).[2] **(R 336.1213(4)(a); R 336.1119(a)(ii); R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, paragraphs 4ww, 7, 8, & 43)**

Appendix 3-1 BR. Monitoring Requirements

The following monitoring procedures, methods, or specifications are the details to the monitoring requirements identified and referenced in FG-BOILERS-BR.

3-1 BR.1. Continuous Emission Monitoring Systems (SO_2)

The Continuous Emissions Monitoring Systems (CEMS) performance specifications defined in 40 CFR Part 75, Appendix B are adopted. The Certified SO_2 monitors will be used to determine sulfur dioxide emissions. The data reduction procedures defined in R 336.2175 will be used to convert SO_2 emission monitoring data in parts per million to pounds SO_2/MM BTU. After the last day of each calendar month, the CEMS data recording system will generate and record a monthly average (pounds SO_2/MM BTU) from validated data reported for 40 CFR Part 75 for the previous month.

3-1 BR.2. Continuous Emissions Monitoring System (Title IV)

The CEMS performance specifications defined in 40 CFR Part 75, Appendix B are adopted.

Methods of measurement, frequency of measurement and record keeping methods for CEMS required under 40 CFR Part 75 are outlined in the most recent version of the DTE CEMS QA/QC Plan

Data Reporting: AQD may approve alternative data reporting or reduction procedures if it can be demonstrated that such procedures are at least as accurate as the procedures identified in R 336.2175.

3-1 BR.3. Continuous Opacity Monitoring Systems

The permittee shall conduct an annual audit of the Continuous Opacity Monitoring System (COMS). The COMS performance specifications defined in 40 CFR Part 60, Appendix B are adopted. **(R 336.1213(3))**

Cycling time for opacity: complete a minimum of one cycle of sampling/analysis for each successive 10-second period and one cycle of data recording for each successive 6-minute period. **(R 336.2152)**

Zero and Drift: The COMS must be subject to the manufacturer's zero and span check at least once daily. **(R 336.2153)**

Location: The location of the COMS or the monitoring devices must be such that representative measurement of emissions or process parameters are obtained. **(R 336.2155)**

Alternative Systems: AQD may approve the use of and alternative monitoring system if one is available that meets COMS objectives and if, because of physical limitations or other reasons, COMS cannot be installed or give accurate measurements. **(R 336.2159)**

Monitoring and reporting requirements shall not apply during any period of monitoring system malfunction if it can be demonstrated to the satisfaction of AQD that the cause of the malfunction could not have been avoided by any reasonable action and necessary repairs are being made as expeditiously as practicable. **(R 336.2190)**

3-1 BR.4. PM CEMS

This Appendix is federally enforceable and was established pursuant to Rule 201(1)(a). This Appendix was originally established in the consent decree settling, "U.S. v DTE Energy and Detroit Edison Company, Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, 2020" and also pursuant to Section 324.5503(b) of the Natural Resources and Environmental Protection Act, 1994 Act 451, as amended, and will remain in effect after termination of the consent decree. Definitions specific to this Appendix may be found in Appendix 1-1-B: Definitions.[2] **(Act 451, Section 324.5503(b))**

4.1 In determining the PM Emissions Rates for each unit under the Consent Decree, DTE shall use the PM CEMS installed at each unit. The PM CEMS shall be comprised of a continuous particle mass monitor measuring filterable particulate matter concentration, directly or indirectly, on an hourly average basis and a diluent monitor used to convert the concentration to units expressed in lb/MMBTU. The PM CEMS installed at each Unit must be appropriate for the anticipated stack conditions and capable of measuring filterable PM concentration on an hourly average basis. DTE shall maintain, in an electronic database, the hourly average emission values of all PM CEMS in lb/MMBTU. Except for period of monitor malfunction, maintenance, or repair, DTE shall operate the PM CEMS at all times when the Unit it serves is operating.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2-10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 25)**

4.2 In maintaining and operating the PM CEMS required under the Consent Decree, DTE shall use the criteria set forth in 40 CFR Part 60, Appendix B, Performance Specification 11, and 40 CFR Part 60, Appendix F, Procedure 2. With respect to relative correlation audits, DTE must conduct such audits no less frequently than once every 12 operating quarters in which the boiler operates 168 hours or more, or earlier if the characteristics of the PM or gas change such that the PM CEMS measurement technology is no longer valid. For each Unit at which DTE installs, certifies, operates, and maintains a PM CEMS, DTE may use the procedures specified in 40 CFR 63.10010(i)(1)-(3) (including the specified temperature) for purposes of correlating the PM CEMS under the Consent Decree. Diluent capping (i.e., 5% CO_2) will be applied to the PM rate data for any hours where the measured CO_2 concentration is less than 5% following the procedures in 40 CFR Part 75, Appendix F, Section 3.3.4.1. DTE shall operate the PM CEMS in accordance with all EPA reviewed QA/QC protocols. Compliance with the PM CEMS correlation and quality assurance procedures in 40 CFR Part 63, Subpart UUUUU constitutes compliance with this condition.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2-10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 26)**

3-1 BR.5. Optimization of ESPs

This Appendix is federally enforceable and was established pursuant to Rule 201(1)(a). This Appendix was originally established in the consent decree settling, "U.S. v DTE Energy and Detroit Edison Company, Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, 2020" and also pursuant to Section 324.5503(b) of the Natural Resources and Environmental Protection Act, 1994 Act 451, as amended, and will remain in effect after termination of the consent decree. Definitions specific to this Appendix may be found in Appendix 1-1-B: Definitions.[2] **(Act 451, Section 324.5503(b))**

DTE Shall:[2]

5.1. At a minimum, to the extent practicable: (i) fully energize each section of the ESP for each Unit, where applicable; (ii) operate automatic control systems on each ESP to maximize PM collection efficiency, where applicable; (iii) maintain power levels delivered to the ESPs, consistent with manufacturers' specifications, the operational design of the Unit, and good engineering practices; and (iv) evaluate and restore the plate-cleaning and discharge-electrode cleaning systems for the ESPs at each Unit by varying the cycle time, cycle frequency, rapper vibrator intensity, and number of strikes per cleaning event; and

5.2. During the next planned Unit outage (or unplanned outage of sufficient length), optimize the PM controls on that Unit by inspecting for and repairing any failed ESP section and any openings in ESP casings, ductwork, and expansion joints to minimize air leakage.

The above requirements are found in "U.S. v DTE Energy and Detroit Edison Company, Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, 2020" Paragraph 23.[2]

Appendix 4-1 BR. Recordkeeping

Specific recordkeeping requirement formats and procedures are detailed in Part A or the appropriate Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Therefore, this appendix is not applicable.

Appendix 5-1 BR. Testing Procedures

Specific testing requirement plans, procedures, and averaging times are detailed in the appropriate source-wide, emission unit and/or flexible group special conditions. Therefore, this appendix is not applicable.

Appendix 6-1 BR. Permits to Install

The following table lists any PTIs issued or ROP revision applications received since the effective date of the previously issued ROP No. MI-ROP-B2796-2015. Those ROP revision applications that are being issued concurrently with this ROP renewal are identified by an asterisk (*). Those revision applications not listed with an asterisk were processed prior to this renewal.

Source-Wide PTI No MI-PTI-B2796-2015c is being reissued as Source-Wide PTI No. MI-PTI-B2796-2024.

Permit to Install Number	ROP Revision Application Number/Issuance Date	Description of Change	Corresponding Emission Unit(s) or Flexible Group(s)
51-22	202200145*	Incorporate PTI No. 51-22 conditions	FG-BOILERS-BR and Appendices 1, 2, 3, 8, & 11
NA	202100072*	Remove conditions from decommissioned EU-ECONSILO-BR, and references of the emission unit in FG-ASH_HAND-BR.	FG-ASH_HAND-BR
NA	202100007*	Add a Schedule of Compliance to Appendix 2-SC & 2-BR of ROP for paragraph #91 of Civil Action No. 2:10-cv-13101 (ECF No. 282) Filed 09-22-2020. The app was submitted by 01-18-2021, within 180 days after the date of entry of CD.	EU-BOILER2-SC, EU-BOILER3-SC, EU-BOILER6-SC, EU-BOILER7-SC, EU-BOILER1-BR, EU-BOILER2-BR

Appendix 7-1 BR. Emission Calculations

Specific emission calculations to be used with monitoring, testing or recordkeeping data are detailed in the appropriate source-wide, emission unit and/or flexible group special conditions. Therefore, this appendix is not applicable.

Appendix 8-1 BR. Reporting

A. Annual, Semiannual, and Deviation Certification Reporting

The permittee shall use the EGLE, AQD, Report Certification form (EQP 5736) and EGLE, AQD, Deviation Report form (EQP 5737) for the annual, semiannual and deviation certification reporting referenced in the Reporting Section of the Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Alternative formats must meet the provisions of Rule 213(4)(c) and Rule 213(3)(c)(i), respectively, and be approved by the AQD District Supervisor.

B. Other Reporting

For EU-BOILER1-BR and EU-BOILER2-BR (Belle River Boiler Nos. 1 and 2), the permittee shall comply with the reporting requirements of the Standards of Performance for New Sources (NSPS), Subparts A and D. The notification requirements are in addition to the monitoring requirements identified and referenced in FG-BOILERS-BR.

8-1 BR.1. Notification requirements, per Section 60.7 of 40 CFR Part 60, Subpart A:

60.7(a)(1) Notification of the date of construction or reconstruction of an affected facility is commenced, postmarked no later than 30 days after such date.

60.7(a)(2) Notification of the date or anticipated date of the initial startup of an affected facility, postmarked not more than 60 nor less than 30 days prior to such date.

60.7(a)(3) Notification of the actual date of the initial startup of an affected facility, postmarked within 15 days after such date.

60.7(a)(4) Notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in Section 60.14(e). This notice shall be postmarked 60 days (or as soon as practicable) before the change is commenced.

Notification of reconstruction activities per Section 60.15 of 40 CFR Part 60, Subpart A:

60.15(d) If an owner or operator of an existing facility proposes to replace components and the fixed capital cost of the new components exceeds 50 percent of the fixed capital cost that would be required to construct a comparable entirely new facility, notification of the proposed replacements, postmarked 60 days (or as soon as practicable) before the construction of the replacements is commenced.

8-1 BR.2. Reporting requirements per 40 CFR Part 60, Subpart D:

Excess emission (EE) reports and monitoring system performance (MPS) reports shall be submitted every quarter. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter. Each EE and MPS report shall include the information required in 40 CFR 60.7(c). Periods of excess emission and monitoring system downtime shall be reported for the following:

1. Opacity: EE are defined as any 6-minute period during which the average opacity of emissions exceed 20% opacity, except that one 6-minute average per hour of up to 27% need not be reported.

2. SO_2: EE are defined as any 3-hour period during which the average emissions (arithmetic average of 3 contiguous one-hour periods) of SO_2 as measured by a CEMS exceeded the applicable standard under 40 CFR 60.43.

3. NO_X: EE are defined as any 3-hour period during which the average emissions (arithmetic average of 3 contiguous one-hour periods) of NO_X as measured by a CEMS exceeded the applicable standard under 40 CFR 60.44.

8-1 BR.3. Reporting requirements per "U.S. v DTE Energy and Detroit Edison Company, Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, 2020" Paragraph 48

This Appendix is federally enforceable and was established pursuant to Rule 201(1)(a). This Appendix was originally established in the consent decree settling, "U.S. v DTE Energy and Detroit Edison Company, Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, 2020" and also pursuant to Section 324.5503(b) of the Natural Resources and Environmental Protection Act, 1994 Act 451, as amended, and will remain in effect after termination of the consent decree. Definitions specific to this Appendix may be found in Appendix 1-1-B-BR: Definitions.[2] **(Act 451, Section 324.5503(b))**

1. DTE shall submit a periodic report, within 60 days after the end of each half of the calendar year (January through June and July through December). The report shall include the following information for each Unit covered by the Consent Decree:

a. All information necessary to determine compliance during the reporting period with the requirements of paragraphs 9-26 of the Consent Decree concerning emissions and monitoring and surrender of Allowances. This information includes but is not limited to:
   i. spreadsheets of all 30-Day Rolling Average Emission Rates and 24-Hour Rolling Average Emission Rates for each of the units,
   ii. a list of any notifications associated with the retrofit, refuel or repower options as specified in Appendix 11-1-BR (Consent Decree paragraph 8)
   iii. total System-Wide Annual NO_X and SO_2 tonnages for the calendar year, and
   iv. specific calculations demonstrating the basis and specific amounts of NO_X and SO_2 Allowances to be Surrendered as specified in Appendix 11-1 BR.2;

b. All periods of PM CEMS malfunction, maintenance, and/or repair as provided in paragraph 25 of the Consent Decree;

c. All information relating to super-compliant NO_X and SO_2 Allowances that DTE claims to have generated in accordance with Appendix 11-1-BR of this permit (requirements of paragraph 19 of the Consent Decree), including a detailed description of the basis for such claim and the specific amount of super-compliant NO_X and SO_2 Allowances claimed at each Unit; and

d. An identification of all periods when the Low NO_X Combustion system (including overfire air) required by the Consent Decree for any unit covered by the Consent Decree (Paragraph 10) was not Continuously Operated while the associated boiler was in operation, the reason(s) for the equipment not being Continuously Operated, and the basis for DTE's compliance or non-compliance with the Continuous Operation requirements of the Consent Decree.

The above requirements are found in **"**U.S. v DTE Energy and Detroit Edison Company, Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, 2020" Paragraphs 8-22 and 48.[2]

2. In any periodic report submitted pursuant to the Periodic Reporting requirements found in Section IX of the Consent Decree, DTE may incorporate by reference information previously submitted under their Title V permitting requirements, provided that DTE attaches the Title V Permit report (or the pertinent portions of such report) and provide a specific reference to the provisions of the Title V Permit report that are responsive to the information required in the periodic report.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2-10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 49)**

3. If DTE violates or deviates from any provision of the Consent Decree, DTE shall submit a report of any violation or deviation from any provision of the Consent Decree within 10 business days after DTE knew or should have known of the event. In the report, DTE shall explain the cause or causes of the violation or deviation and all measures taken or to be taken by DTE to cure the reported violation or deviation or to prevent such violations or deviations in the future. If at any time the provisions of the Consent Decree are included in Title V Permits, consistent with the requirements for such inclusion in the Consent Decree, then the deviation reports required under applicable Title V regulations shall be deemed to satisfy the Consent Decree requirement.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2-10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 50)**

4. Each report required by the Consent Decree shall be signed by the Responsible Official as defined in Title V of the Clean Air Act for the appropriate System Unit(s), and shall contain the following certification: "This information was prepared either by me or under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my evaluation, or the direction and my inquiry of the person(s) who manage the system, or the person(s) directly responsible for gathering the information, I hereby certify under penalty of law that, to the best of my knowledge and belief, this information is true, accurate, and complete. I understand that there are significant penalties for submitting false, inaccurate, or incomplete information to the United States."[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2-10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 51)**

5. Unless otherwise provided herein, whenever notifications, submissions, or communications are required by the Consent Decree, they shall be made in both paper and electronic format to the addresses identified in paragraph 99 of the Consent Decree unless otherwise superseded. Electronic submittals shall not be the only form of notification, submission, or communication unless agree upon by both the submitting and receiving Parties.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2-10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 99)**

6. All paper notifications, communications, or submissions made pursuant to this Section shall be sent either by: (a) overnight mail or overnight delivery service with signature required for delivery or (b) certified or registered mail, return receipt requested. All notifications, communications, and transmissions (a) sent by overnight, certified, or registered mail shall be deemed submitted on the date they are postmarked, or (b) sent by overnight delivery service shall be deemed submitted on the date they are delivered to the delivery service.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2-10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 101)**

Appendix 9-1 BR. Phase Two Acid Rain Permit

PHASE II ACID RAIN PERMIT
Permit No. MI-AR-6034-2024

Permittee	DTE Electric - Belle River Power Plant
Address	4505 King Road, East China Township, MI
SRN	B2796
Plant Code	6034
Issue Date	June 1, 2024
Effective	Issuance date of this facility's Renewable Operating Permit at the facility in accordance with 40 CFR 72.73.
Expiration	This permit shall expire when the facility's Renewable Operating Permit expires, in accordance with 40 CFR 72.73.
ROP No.	MI-ROP-B2796-2024

The Acid Rain Permit Contents

1. A statement of basis prepared by the Air Quality Division (AQD) containing:

   References to statutory and regulatory authorities, and with comments, notes, and justification that apply to the source in general;

2. Terms and conditions including:

   A table of sulfur dioxide allowances to be allocated during the term of the permit, if applicable, authorized by this permit during Phase II. Unless they are subject to Sections 405(g)(2) or (3) of the federal Clean Air Act, new units are not allocated allowances in 40 CFR Part 73 and must obtain allowances by other means (Section 403(e) of the federal Clean Air Act);

   Comments, notes and justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements; and,

   Any applicable nitrogen oxides compliance plan. Unless they are coal fired utility units regulated pursuant to Sections 404, 405, or 409 of the federal Clean Air Act, new units are not subject to the acid rain nitrogen oxides requirements (40 CFR 76.1(a)).

3. The permit application that this source submitted, as corrected by the AQD. The owners and operators of the source must comply with the standard requirements and special provisions set forth in the application.

Statement of Basis

Statutory and Regulatory Authorities.

In accordance with the Natural Resources and Environmental Protection Act, 1994 PA 451 and Titles IV and V of the federal Clean Air Act, the Michigan Department of Environment, Great Lakes, and Energy, Air Quality Division (AQD), issues this permit pursuant to the provisions of R 336.1210 to R 336.1218, and R 336.1902(1)(p).

For further information contact:

Mr. Brian Carley
Environmental Quality Specialist
Michigan Department of Environment, Great Lakes, and Energy
Air Quality Division, Jackson District Office
State Office Building, 4th Floor
301 East Louis B. Glick Highway
Jackson, Michigan 49201-1556

Telephone: 517-416-4631
Facsimile: 517-780-7855

There are no comments, notes and/or justification that apply to the source in general for this section.

Terms and Conditions:

Phase II Sulfur Dioxide Allowance Allocation and Nitrogen Oxides Requirements for each affected unit.

		2024	2025	2026	2027	2028
Unit 1	SO_2 allowances	18,536	18,536	18,536	18,536	18,536
	NOx Emission Limits	Pursuant to 40 CFR Part 76, the State of Michigan Department of Environment, Great Lakes, and Energy, Air Quality Division approves a NOx standard emissions limitation compliance plan for Unit 1. The NOx compliance plan is effective beginning 2023. Under the NOx compliance plan, this unit's annual average NOx emissions rate for each year, determined in accordance with 40 CFR Part 75, shall not exceed the applicable emission limitation, under 40 CFR 76.7(a)(2), of **0.46 lb/MMBTU** for Phase II dry bottom wall-fired boilers. In addition to the described NOx compliance plan, this unit shall comply with all other applicable requirements of 40 CFR Part 76, including the duty to reapply for a NOx compliance plan and requirements covering excess emissions.				

Terms and Conditions: (continued)

		2024	2025	2026	2027	2028
Unit 2	SO_2 allowances	18,801	18,801	18,801	18,801	18,801
	NOx Emission Limits	Pursuant to 40 CFR Part 76, the State of Michigan Department of Environment, Great Lakes, and Energy, Air Quality Division approves a NOx standard emissions limitation compliance plan for Unit 2. The NOx compliance plan is effective beginning 2023. Under the NOx compliance plan, this unit's annual average NOx emissions rate for each year, determined in accordance with 40 CFR Part 75, shall not exceed the applicable emission limitation, under 40 CFR 76.7(a)(2), of **0.46 lb/MMBTU** for Phase II dry bottom wall-fired boilers. In addition to the described NOx compliance plan, this unit shall comply with all other applicable requirements of 40 CFR Part 76, including the duty to reapply for a NOx compliance plan and requirements covering excess emissions.				

		2024	2025	2026	2027	2028
Unit CTG 12-1	SO_2 allowances	This affected unit shall hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and comply with the applicable Acid Rain emissions limitation for sulfur dioxide in accordance with 40 CFR 72.9 (c).				

		2024	2025	2026	2027	2028
Unit CTG 12-2	SO_2 allowances	This affected unit shall hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and comply with the applicable Acid Rain emissions limitation for sulfur dioxide in accordance with 40 CFR 72.9 (c).				

Terms and Conditions: (continued)

		2024	2025	2026	2027	2028
Unit CTG 13-1	SO_2 allowances	This affected unit shall hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and comply with the applicable Acid Rain emissions limitation for sulfur dioxide in accordance with 40 CFR 72.9 (c).				

Comments, notes and justifications regarding permit decisions, and changes made to the permit application forms during the review process: During the permit development process DTE Electric determined with the closure of other plants in their fleet that there was no need for a NOx Averaging Plan. On September 26, 2022, DTE Electric revised their Acid Rain Permit application and their NOx Compliance that the coal-fired units would now comply with the standard annual NOx average emission limit for dry bottom wall-fired boilers.

Permit Application: (attached)

Acid Rain Permit Application submitted December 3, 2019, revised September 26, 2022
Phase II NOx Compliance Plan submitted December 3, 2019, revised September 26, 2022
Phase II NOx Averaging Plan submitted June 7, 2019, removed September 26, 2022

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Approval expires 12/31/2021

Acid Rain Permit Application

For more information, see instructions and 40 CFR 72.30 and 72.31.

This submission is: ☐ new ☐ revised ☑ for ARP permit renewal

STEP 1

Identify the facility name, State, and plant (ORIS) code.

DTE Electric-Belle River Power Plant Facility (Source) Name	MI State	6034 Plant Code

STEP 2

Enter the unit ID# for every affected unit at the affected source in column "a."

a	b
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)
1	Yes
2	Yes
CTG 12-1	Yes
CTG 12-2	Yes
CTG 13-1	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes

EPA Form 7610-16 (Revised 8-2019)

DTE Electric-Belle River Power Plant
Facility (Source) Name (from STEP 1)

STEP 3

Read the standard requirements.

Permit Requirements

(1) The designated representative of each affected source and each affected unit at the source shall:
- (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
- (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;

(2) The owners and operators of each affected source and each affected unit at the source shall:
- (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
- (ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.

(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.

(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

(1) The owners and operators of each source and each affected unit at the source shall:
- (i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and
- (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.

(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.

(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
- (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
- (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.

(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.

(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

DTE Electric-Belle River Power Plant
Facility (Source) Name (from STEP 1)

STEP 3, Cont'd.

Excess Emissions Requirements

(1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected source that has excess emissions in any calendar year shall:
   (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
   (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
   (i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
   (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
   (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
   (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

DTE Electric-Belle River Power Plant
Facility (Source) Name (from STEP 1)

STEP 3, Cont'd.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;

(2) Limiting the number of allowances a source can hold; provided, that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act;

(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

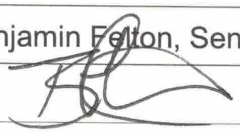
(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4

Certification

Read the certification statement, sign, and date.

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name	Benjamin Felton, Senior Vice President, Energy Supply	
Signature		Date 9/22/2022

EPA Form 7610-16 (Revised 8-2019)

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Approval expires 12/31/2021

Acid Rain NO_x Compliance Plan

For more information, see instructions and refer to 40 CFR 76.9
This submission is: ☐ New ☑ Revised

STEP 1
Indicate plant name, State, and Plant code from the current Certificate of Representation covering the facility.

DTE Electric - Belle River Power Plant	MI	6034
Plant Name	State	Plant Code

STEP 2

Identify each affected Group 1 and Group 2 boiler using the unit IDs from the current Certificate of Representation covering the facility. Also indicate the boiler type: "CB" for cell burner, "CY" for cyclone, "DBW" for dry bottom wall-fired, "T" for tangentially fired, "V" for vertically fired, and "WB" for wet bottom, and select the compliance option for each unit by making an 'X' in the appropriate row and column.

	ID# 1	ID# 2	ID#	ID#	ID#	ID#
	DBW Type	DBW Type	Type	Type	Type	Type
(a) Standard annual average emission limitation of 0.50 lb/mmBtu (for Phase I dry bottom wall-fired boilers)						
(b) Standard annual average emission limitation of 0.45 lb/mmBtu (for Phase I tangentially fired boilers)						
(c) Standard annual average emission limitation of 0.46 lb/mmBtu (for Phase II dry bottom wall-fired boilers)	X	X				
(d) Standard annual average emission limitation of 0.40 lb/mmBtu (for Phase II tangentially fired boilers)						
(e) Standard annual average emission limitation of 0.68 lb/mmBtu (for cell burner boilers)						
(f) Standard annual average emission limitation of 0.86 lb/mmBtu (for cyclone boilers)						
(g) Standard annual average emission limitation of 0.80 lb/mmBtu (for vertically fired boilers)						
(h) Standard annual average emission limitation of 0.84 lb/mmBtu (for wet bottom boilers)						
(i) NO_x Averaging Plan (include NO_x Averaging form)						
(j) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(A) (check the standard emission limitation box above for most stringent limitation applicable to any unit utilizing stack)						
(k) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(B) with NO_x Averaging (check the NO_x Averaging Plan box and include NO_x Averaging form)						
(l) EPA-approved common stack apportionment method pursuant to 40 CFR 75.17(a)(2)(i)(C), (a)(2)(iii)(B), or (b)(2)						

EPA Form 7610-28 (Revised 8-2019)

Section 1 Belle River Power Plant

DTE Electric - Belle River Power Plant

Plant Name (from Step 1)

STEP 3
Identify the first calendar year in which this plan will apply.

January 1, 2023

STEP 4
Read the special provisions and certification, enter the name of the designated representative, sign and date.

Special Provisions

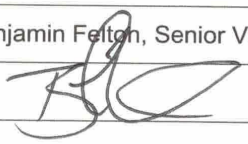
General.

This source is subject to the standard requirements in 40 CFR 72.9. These requirements are listed in this source's Acid Rain Permit.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name Benjamin Felton, Senior Vice President, Energy Supply

Signature 

Date 9/22/2022

EPA Form 7610-28 (Revised 8-2019)

Appendix 10-1 BR: Cross State Air Pollution Rule (CSAPR) Trading Program Title V Requirements

Description of CSAPR Monitoring Provisions

The CSAPR subject units, and the unit-specific monitoring provisions, at this source are identified in the following tables. These units are subject to the requirements for the CSAPR NO_X Annual Trading Program, CSAPR NO_X Ozone Season Group 3 Trading Program, and CSAPR SO_2 Group 1 Trading Program, which are included below as Sections I, II, and III, respectively.

Each unit will use one of the following as the monitoring methodology for each parameter as provided below and shall comply with the general monitoring, recordkeeping, reporting and other requirements in conditions 1 through 5 below and in paragraph (b) of Sections I, II, and III:

- Continuous emission monitoring system or systems (CEMS) requirements pursuant to 40 CFR Part 75, Subpart B (for SO_2 monitoring) or 40 CFR Part 75, Subpart H (for NO_X monitoring)
- Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D
- Excepted monitoring system requirements for gas- and oil-fired peaking units pursuant to 40 CFR Part 75, Appendix E
- Low Mass Emissions excepted monitoring (LME) requirements for gas- and oil-fired units pursuant to 40 CFR 75.19
- EPA-approved alternative monitoring system requirements pursuant to 40 CFR Part 75, Subpart E

Unit ID: EU-BOILER1-BR	
Parameter	Monitoring Methodology
SO_2	CEMS requirements pursuant to 40 CFR Part 75, Subpart B
NO_X	CEMS requirements pursuant to 40 CFR Part 75, Subpart H
Heat Input	CEMS requirements pursuant to 40 CFR Part 75, Subpart B or 40 CFR Part 75, Subpart H

Unit ID: EU-BOILER2-BR	
Parameter	Monitoring Methodology
SO_2	CEMS requirements pursuant to 40 CFR Part 75, Subpart B
NO_X	CEMS requirements pursuant to 40 CFR Part 75, Subpart H
Heat Input	CEMS requirements pursuant to 40 CFR Part 75, Subpart B or 40 CFR Part 75, Subpart H

1. The above description of the monitoring used by a unit does not change, create an exemption from, or otherwise affect the monitoring, recordkeeping, and reporting requirements applicable to the unit under 40 CFR 97.430 through 97.435 (CSAPR NOx Annual Trading Program), 97.830 through 97.835 (CSAPR NOx Ozone Season Group 3 Trading Program), and 97.630 through 97.635 (CSAPR SO_2 Group 1 Trading Program). The monitoring, recordkeeping and reporting requirements applicable to each unit are included below in the standard conditions for the applicable CSAPR trading programs.

2. Owners and operators must submit to the Administrator a monitoring plan for each unit in accordance with 40 CFR 75.53, 75.62 and 75.73, as applicable. The monitoring plan for each unit is available at the EPA's website at https://www.epa.gov/airmarkets/clean-air-markets-monitoring-plans-part-75-sources.

3. Owners and operators that want to use an alternative monitoring system must submit to the Administrator a petition requesting approval of the alternative monitoring system in accordance with 40 CFR Part 75, Subpart E and 40 CFR 75.66 and 97.435 (CSAPR NOx Annual Trading Program), 97.835 (CSAPR NOx Ozone Season Group 3 Trading Program), and/or 97.635 (CSAPR SO_2 Group 1 Trading Program). The Administrator's response approving or disapproving any petition for an alternative monitoring system is available on the EPA's website at https://www.epa.gov/airmarkets/part-75-petition-responses.

4. Owners and operators that want to use an alternative to any monitoring, recordkeeping, or reporting requirement under 40 CFR 97.430 through 97.434 (CSAPR NOx Annual Trading Program), 97.830 through 97.834 (CSAPR NOx Ozone Season Group 3 Trading Program), and/or 97.630 through 97.634 (CSAPR SO_2 Group 1 Trading Program) must submit to the Administrator a petition requesting approval of the alternative in accordance with 40 CFR 75.66 and 97.435 (CSAPR NOx Annual Trading Program), 97.835 (CSAPR NOx Ozone Season Group 3 Trading Program), and/or 97.635 (CSAPR SO_2 Group 1 Trading Program). The Administrator's response

approving or disapproving any petition for an alternative to a monitoring, recordkeeping, or reporting requirement is available on the EPA's website at https://www.epa.gov/airmarkets/part-75-petition-responses.

5. The descriptions of monitoring applicable to the unit included above meet the requirement of 40 CFR 97.430 through 97.434 (CSAPR NOx Annual Trading Program), 97.830 through 97.834 (CSAPR NOx Ozone Season Group 3 Trading Program), and 97.630 through 97.634 (CSAPR SO_2 Group 1 Trading Program), and therefore minor permit modification procedures, in accordance with 40 CFR 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B), may be used to add or change this unit's monitoring system description.

SECTION I: CSAPR NOx Annual Trading Program requirements (40 CFR 97.406)

(a) Designated representative requirements.
The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.413 through 97.418.

(b) Emissions monitoring, reporting, and recordkeeping requirements.
(1) The owners and operators, and the designated representative, of each CSAPR NOx Annual source and each CSAPR NOx Annual unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.430 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.431 (initial monitoring system certification and recertification procedures), 97.432 (monitoring system out-of-control periods), 97.433 (notifications concerning monitoring), 97.434 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.435 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
(2) The emissions data determined in accordance with 40 CFR 97.430 through 97.435 shall be used to calculate allocations of CSAPR NOx Annual allowances under 40 CFR 97.411(a)(2) and (b) and 97.412 and to determine compliance with the CSAPR NOx Annual emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.430 through 97.435 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) NOx emissions requirements.
(1) CSAPR NOx Annual emissions limitation.
(i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NOx Annual source and each CSAPR NOx Annual unit at the source shall hold, in the source's compliance account, CSAPR NOx Annual allowances available for deduction for such control period under 40 CFR 97.424(a) in an amount not less than the tons of total NOx emissions for such control period from all CSAPR NOx Annual units at the source.
(ii). If total NOx emissions during a control period in a given year from the CSAPR NOx Annual units at a CSAPR NOx Annual source are in excess of the CSAPR NOx Annual emissions limitation set forth in paragraph (c)(1)(i) above, then:
(A). The owners and operators of the source and each CSAPR NOx Annual unit at the source shall hold the CSAPR NOx Annual allowances required for deduction under 40 CFR 97.424(d); and
(B). The owners and operators of the source and each CSAPR NOx Annual unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart AAAAA and the Clean Air Act.

(2) CSAPR NOx Annual assurance provisions.
(i). If total NOx emissions during a control period in a given year from all CSAPR NOx Annual units at CSAPR NOx Annual sources in the state and Indian country within the borders of such State exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NOx emissions during such control period exceeds the common designated representative's assurance level for the state and such control

period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NOx Annual allowances available for deduction for such control period under 40 CFR 97.425(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.425(b), of multiplying— (A) The quotient of the amount by which the common designated representative's share of such NOx emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state and Indian country within the borders of such state for such control period, by which each common designated representative's share of such NOx emissions exceeds the respective common designated representative's assurance level; and (B) The amount by which total NOx emissions from all CSAPR NOx Annual units at CSAPR NOx Annual sources in the state and Indian country within the borders of such state for such control period exceed the state assurance level.

(ii). The owners and operators shall hold the CSAPR NOx Annual allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii). Total NOx emissions from all CSAPR NOx Annual units at CSAPR NOx Annual sources in the State and Indian country within the borders of such state during a control period in a given year exceed the state assurance level if such total NOx emissions exceed the sum, for such control period, of the state NOx Annual trading budget under 40 CFR 97.410(a) and the state's variability limit under 40 CFR 97.410(b).

(iv). It shall not be a violation of 40 CFR Part 97, Subpart AAAAA or of the Clean Air Act if total NOx emissions from all CSAPR NOx Annual units at CSAPR NOx Annual sources in the State and Indian country within the borders of such State during a control period exceed the state assurance level or if a common designated representative's share of total NOx emissions from the CSAPR NOx Annual units at CSAPR NOx Annual sources in the state and Indian country within the borders of such state during a control period exceeds the common designated representative's assurance level.

(v). To the extent the owners and operators fail to hold CSAPR NOx Annual allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,

(A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B). Each CSAPR NOx Annual allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart AAAAA and the Clean Air Act.

(3) Compliance periods.

(i). A CSAPR NOx Annual unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015, or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.

(ii). A CSAPR NOx Annual unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

(i). A CSAPR NOx Annual allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a CSAPR NOx Annual allowance that was allocated for such control period or a control period in a prior year.

(ii). A CSAPR NOx Annual allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a CSAPR NOx Annual allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each CSAPR NOx Annual allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR Part 97, Subpart AAAAA.

(6) Limited authorization. A CSAPR NOx Annual allowance is a limited authorization to emit one ton of NOx during the control period in one year. Such authorization is limited in its use and duration as follows:

(i). Such authorization shall only be used in accordance with the CSAPR NOx Annual Trading Program; and

(ii). Notwithstanding any other provision of 40 CFR Part 97, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A CSAPR NOx Annual allowance does not constitute a property right.

(d) Title V permit revision requirements.

(1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR NOx Annual allowances in accordance with 40 CFR Part 97, Subpart AAAAA.

(2) This permit incorporates the CSAPR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.430 through 97.435, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR Part 75, Subparts B and H), an excepted monitoring system (pursuant to 40 CFR Part 75, Appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR Part 75, Subpart E). Therefore, the Description of CSAPR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.406(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of each CSAPR NOx Annual source and each CSAPR NOx Annual unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

(i). The certificate of representation under 40 CFR 97.416 for the designated representative for the source and each CSAPR NOx Annual unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.416 changing the designated representative.

(ii). All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart AAAAA.

(iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NOx Annual Trading Program.

(2) The designated representative of a CSAPR NOx Annual source and each CSAPR NOx Annual unit at the source shall make all submissions required under the CSAPR NO_x Annual Trading Program, except as provided in 40 CFR 97.418. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR Parts 70 and 71.

(f) Liability.

(1) Any provision of the CSAPR NOx Annual Trading Program that applies to a CSAPR NOx Annual source or the designated representative of a CSAPR NOx Annual source shall also apply to the owners and operators of such source and of the CSAPR NOx Annual units at the source.

(2) Any provision of the CSAPR NOx Annual Trading Program that applies to a CSAPR NOx Annual unit or the designated representative of a CSAPR NOx Annual unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.

No provision of the CSAPR NOx Annual Trading Program or exemption under 40 CFR 97.405 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NOx Annual source or CSAPR NOx Annual unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

(h) Effect on units in Indian country.

Notwithstanding the provisions of paragraphs (a) through (g) above, paragraphs (a) through (g) shall be deemed not to impose any requirements on any source or unit, or any owner, operator, or designated representative with regard to any source or unit, in Indian country within the borders of the state.

SECTION II: CSAPR NOx Ozone Season Group 3 Trading Program Requirements (40 CFR 97.806)

(a) Designated representative requirements.
The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.813 through 97.818.

(b) Emissions monitoring, reporting, and recordkeeping requirements.
(1) The owners and operators, and the designated representative, of each CSAPR NOx Ozone Season Group 3 source and each CSAPR NOx Ozone Season Group 3 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.830 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.831 (initial monitoring system certification and recertification procedures), 97.832 (monitoring system out-of-control periods), 97.833 (notifications concerning monitoring), 97.834 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.835 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
(2) The emissions data determined in accordance with 40 CFR 97.830 through 97.835 shall be used to calculate allocations of CSAPR NOx Ozone Season Group 3 allowances under 40 CFR 97.811(a)(2) and (b) and 97.812 and to determine compliance with the CSAPR NOx Ozone Season Group 3 emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.830 through 97.835 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) NOx emissions requirements.
(1) CSAPR NOx Ozone Season Group 3 emissions limitation.
(i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NOx Ozone Season Group 3 source and each CSAPR NOx Ozone Season Group 3 unit at the source shall hold, in the source's compliance account, CSAPR NOx Ozone Season Group 3 allowances available for deduction for such control period under 40 CFR 97.824(a) in an amount not less than the tons of total NOx emissions for such control period from all CSAPR NOx Ozone Season Group 3 units at the source.
(ii). If total NO_X emissions during a control period in a given year from the CSAPR NOx Ozone Season Group 3 units at a CSAPR NOx Ozone Season Group 3 source are in excess of the CSAPR NOx Ozone Season Group 3 emissions limitation set forth in paragraph (c)(1)(i) above, then:
(A). The owners and operators of the source and each CSAPR NOx Ozone Season Group 3 unit at the source shall hold the CSAPR NOx Ozone Season Group 3 allowances required for deduction under 40 CFR 97.824(d); and
(B). The owners and operators of the source and each CSAPR NOx Ozone Season Group 3 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart GGGGG and the Clean Air Act.
(2) CSAPR NOx Ozone Season Group 3 assurance provisions.
(i). If total NOx emissions during a control period in a given year from all CSAPR NOx Ozone Season Group 3 units at CSAPR NOx Ozone Season Group 3 sources in the state and Indian country within the borders of such state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NOx emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NOx Ozone Season Group 3 allowances available for deduction for such control period under 40 CFR 97.825(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.825(b), of multiplying—
(A). The quotient of the amount by which the common designated representative's share of such NOx emissions exceeds the common designated representative's assurance level divided by the

sum of the amounts, determined for all common designated representatives for such sources and units in the state and Indian country within the borders of such state for such control period, by which each common designated representative's share of such NOx emissions exceeds the respective common designated representative's assurance level; and

(B). The amount by which total NOx emissions from all CSAPR NOx Ozone Season Group 3 units at CSAPR NOx Ozone Season Group 3 sources in the state and Indian country within the borders of such state for such control period exceed the state assurance level.

(ii). The owners and operators shall hold the CSAPR NOx Ozone Season Group 3 allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii). Total NOx emissions from all CSAPR NOx Ozone Season Group 3 units at CSAPR NOx Ozone Season Group 3 sources in the state and Indian country within the borders of such state during a control period in a given year exceed the state assurance level if such total NOx emissions exceed the sum, for such control period, of the State NOx Ozone Season Group 3 trading budget under 40 CFR 97.810(a) and the state's variability limit under 40 CFR 97.810(b).

(iv). It shall not be a violation of 40 CFR Part 97, Subpart GGGGG or of the Clean Air Act if total NOx emissions from all CSAPR NOx Ozone Season Group 3 units at CSAPR NOx Ozone Season Group 3 sources in the state and Indian country within the borders of such state during a control period exceed the state assurance level or if a common designated representative's share of total NOx emissions from the CSAPR NOx Ozone Season Group 3 units at CSAPR NOx Ozone Season Group 3 sources in the state and Indian country within the borders of such state during a control period exceeds the common designated representative's assurance level.

(v). To the extent the owners and operators fail to hold CSAPR NOx Ozone Season Group 3 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,

(A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B). Each CSAPR NOx Ozone Season Group 3 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart GGGGG and the Clean Air Act.

(3) Compliance periods.

(i). A CSAPR NOx Ozone Season Group 3 unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.830(b) and for each control period thereafter.

(ii). A CSAPR NOx Ozone Season Group 3 unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.830(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

(i). A CSAPR NOx Ozone Season Group 3 allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a CSAPR NOx Ozone Season Group 3 allowance that was allocated for such control period or a control period in a prior year.

(ii). A CSAPR NOx Ozone Season Group 3 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a CSAPR NOx Ozone Season Group 3 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each CSAPR NOx Ozone Season Group 3 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR Part 97, Subpart GGGGG.

(6) Limited authorization. A CSAPR NOx Ozone Season Group 3 allowance is a limited authorization to emit one ton of NOx during the control period in one year. Such authorization is limited in its use and duration as follows:

(i). Such authorization shall only be used in accordance with the CSAPR NOx Ozone Season Group 3 Trading Program; and

(ii). Notwithstanding any other provision of 40 CFR Part 97, Subpart GGGGG, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A CSAPR NOx Ozone Season Group 3 allowance does not constitute a property right.

(d) Title V permit revision requirements.

(1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR NOx Ozone Season Group 3 allowances in accordance with 40 CFR Part 97, Subpart GGGGG.

(2) This permit incorporates the CSAPR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.830 through 97.835, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR Part 75, Subparts B and H), an excepted monitoring system (pursuant to 40 CFR Part 75, Appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR Part 75, Subpart E). Therefore, the Description of CSAPR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.806(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of each CSAPR NOx Ozone Season Group 3 source and each CSAPR NOx Ozone Season Group 3 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

(i). The certificate of representation under 40 CFR 97.816 for the designated representative for the source and each CSAPR NOx Ozone Season Group 3 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.816 changing the designated representative.

(ii). All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart GGGGG.

(iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NOx Ozone Season Group 3 Trading Program.

(2) The designated representative of a CSAPR NOx Ozone Season Group 3 source and each CSAPR NOx Ozone Season Group 3 unit at the source shall make all submissions required under the CSAPR NOx Ozone Season Group 3 Trading Program, except as provided in 40 CFR 97.818. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR Parts 70 and 71.

(f) Liability.

(1) Any provision of the CSAPR NOx Ozone Season Group 3 Trading Program that applies to a CSAPR NOx Ozone Season Group 3 source or the designated representative of a CSAPR NOx Ozone Season Group 3 source shall also apply to the owners and operators of such source and of the CSAPR NOx Ozone Season Group 3 units at the source.

(2) Any provision of the CSAPR NOx Ozone Season Group 3 Trading Program that applies to a CSAPR NOx Ozone Season Group 3 unit or the designated representative of a CSAPR NOx Ozone Season Group 3 unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.

No provision of the CSAPR NOx Ozone Season Group 3 Trading Program or exemption under 40 CFR 97.805 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NOx Ozone Season Group 3 source or CSAPR NOx Ozone Season Group 3 unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

(h) Effect on units in Indian country.

Notwithstanding the provisions of paragraphs (a) through (g) above, paragraphs (a) through (g) shall be deemed not to impose any requirements on any source or unit, or any owner, operator, or designated representative with regard to any source or unit, in Indian country within the borders of the state.

SECTION III: CSAPR SO_2 Group 1 Trading Program requirements (40 CFR 97.606)

(a) Designated representative requirements.
The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.613 through 97.618.

(b) Emissions monitoring, reporting, and recordkeeping requirements.
(1) The owners and operators, and the designated representative, of each CSAPR SO_2 Group 1 source and each CSAPR SO_2 Group 1 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.630 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.631 (initial monitoring system certification and recertification procedures), 97.632 (monitoring system out-of-control periods), 97.633 (notifications concerning monitoring), 97.634 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.635 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
(2) The emissions data determined in accordance with 40 CFR 97.630 through 97.635 shall be used to calculate allocations of CSAPR SO_2 Group 1 allowances under 40 CFR 97.611(a)(2) and (b) and 97.612 and to determine compliance with the CSAPR SO_2 Group 1 emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.630 through 97.635 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) SO_2 emissions requirements.
(1) CSAPR SO_2 Group 1 emissions limitation.
(i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR SO_2 Group 1 source and each CSAPR SO_2 Group 1 unit at the source shall hold, in the source's compliance account, CSAPR SO_2 Group 1 allowances available for deduction for such control period under 40 CFR 97.624(a) in an amount not less than the tons of total SO_2 emissions for such control period from all CSAPR SO_2 Group 1 units at the source.
(ii). If total SO_2 emissions during a control period in a given year from the CSAPR SO_2 Group 1 units at a CSAPR SO_2 Group 1 source are in excess of the CSAPR SO_2 Group 1 emissions limitation set forth in paragraph (c)(1)(i) above, then:
(A). The owners and operators of the source and each CSAPR SO_2 Group 1 unit at the source shall hold the CSAPR SO_2 Group 1 allowances required for deduction under 40 CFR 97.624(d); and
(B). The owners and operators of the source and each CSAPR SO_2 Group 1 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation 40 CFR Part 97, Subpart CCCCC and the Clean Air Act.
(2) CSAPR SO_2 Group 1 assurance provisions.
(i). If total SO_2 emissions during a control period in a given year from all CSAPR SO_2 Group 1 units at CSAPR SO_2 Group 1 sources in the state and Indian country within the borders of such state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such SO_2 emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR SO_2 Group 1 allowances available for deduction for such control period under 40 CFR 97.625(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.625(b), of multiplying—
(A). The quotient of the amount by which the common designated representative's share of such SO_2 emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state and Indian country within the borders of such state for such control period, by

which each common designated representative's share of such SO_2 emissions exceeds the respective common designated representative's assurance level; and

(B). The amount by which total SO_2 emissions from all CSAPR SO_2 Group 1 units at CSAPR SO_2 Group 1 sources in the state and Indian country within the borders of such state for such control period exceed the state assurance level.

(ii). The owners and operators shall hold the CSAPR SO_2 Group 1 allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii). Total SO_2 emissions from all CSAPR SO_2 Group 1 units at CSAPR SO_2 Group 1 sources in the state and Indian country within the borders of such state during a control period in a given year exceed the state assurance level if such total SO_2 emissions exceed the sum, for such control period, of the state SO_2 Group 1 trading budget under 40 CFR 97.610(a) and the state's variability limit under 40 CFR 97.610(b).

(iv). It shall not be a violation of 40 CFR Part 97, Subpart CCCCC or of the Clean Air Act if total SO_2 emissions from all CSAPR SO_2 Group 1 units at CSAPR SO_2 Group 1 sources in the state and Indian country within the borders of such state during a control period exceed the state assurance level or if a common designated representative's share of total SO_2 emissions from the CSAPR SO_2 Group 1 units at CSAPR SO_2 Group 1 sources in the state and Indian country within the borders of such state during a control period exceeds the common designated representative's assurance level.

(v). To the extent the owners and operators fail to hold CSAPR SO_2 Group 1 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,

(A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B). Each CSAPR SO_2 Group 1 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart CCCCC and the Clean Air Act.

(3) Compliance periods.

(i). A CSAPR SO_2 Group 1 unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.

(ii). A CSAPR SO_2 Group 1 unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

(i). A CSAPR SO_2 Group 1 allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a CSAPR SO_2 Group 1 allowance that was allocated for such control period or a control period in a prior year.

(ii). A CSAPR SO_2 Group 1 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a CSAPR SO_2 Group 1 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each CSAPR SO_2 Group 1 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR Part 97, Subpart CCCCC.

(6) Limited authorization. A CSAPR SO_2 Group 1 allowance is a limited authorization to emit one ton of SO_2 during the control period in one year. Such authorization is limited in its use and duration as follows:

(i). Such authorization shall only be used in accordance with the CSAPR SO_2 Group 1 Trading Program; and

(ii). Notwithstanding any other provision of 40 CFR Part 97, Subpart CCCCC, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A CSAPR SO_2 Group 1 allowance does not constitute a property right.

(d) Title V permit revision requirements.

(1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR SO_2 Group 1 allowances in accordance with 40 CFR Part 97, Subpart CCCCC.

(2) This permit incorporates the CSAPR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.630 through 97.635, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR Part 75, Subparts B and H), an excepted monitoring system (pursuant to 40 CFR Part 75, Appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR Part 75, Subpart E). Therefore, the Description of CSAPR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.606(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of each CSAPR SO_2 Group 1 source and each CSAPR SO_2 Group 1 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

(i). The certificate of representation under 40 CFR 97.616 for the designated representative for the source and each CSAPR SO_2 Group 1 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.616 changing the designated representative.

(ii). All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart CCCCC.

(iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR SO_2 Group 1 Trading Program.

(2) The designated representative of a CSAPR SO_2 Group 1 source and each CSAPR SO_2 Group 1 unit at the source shall make all submissions required under the CSAPR SO_2 Group 1 Trading Program, except as provided in 40 CFR 97.618. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR Parts 70 and 71.

(f) Liability.

(1) Any provision of the CSAPR SO_2 Group 1 Trading Program that applies to a CSAPR SO_2 Group 1 source or the designated representative of a CSAPR SO_2 Group 1 source shall also apply to the owners and operators of such source and of the CSAPR SO_2 Group 1 units at the source.

(2) Any provision of the CSAPR SO_2 Group 1 Trading Program that applies to a CSAPR SO_2 Group 1 unit or the designated representative of a CSAPR SO_2 Group 1 unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.

No provision of the CSAPR SO_2 Group 1 Trading Program or exemption under 40 CFR 97.605 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR SO_2 Group 1 source or CSAPR SO_2 Group 1 unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

(h) Effect on units in Indian country.

Notwithstanding the provisions of paragraphs (a) through (g) above, paragraphs (a) through (g) shall be deemed not to impose any requirements on any source or unit, or any owner, operator, or designated representative with regard to any source or unit, in Indian country within the borders of the state.

Appendix 11-1 BR: NO_X and SO_2 Allowances and Limitations

11-1 BR.1: System Wide NO_X and SO_2 Tonnage Limitations

This Appendix is federally enforceable and was established pursuant to Rule 201(1)(a). This Appendix was originally established in the consent decree settling, "U.S. v DTE Energy and Detroit Edison Company, Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, 2020" and also pursuant to Section 324.5503(b) of the Natural Resources and Environmental Protection Act, 1994 Act 451, as amended, and will remain in effect after termination of the consent decree. Definitions specific to this Appendix may be found in Appendix 1-1-B-BR: Definitions. **(Act 451, Section 324.5503(b))**

System-Wide Annual NO_X and SO_2 Tonnage Limitations

The DTE System, collectively, shall operate so as not to exceed the following System-Wide Annual NO_X and SO_2 Annual Limitations:[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2-10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 11)**

For the Calendar Year Specified Below:	System-Wide Annual NO_X Tonnage Limitation	System-Wide Annual SO_2 Tonnage Limitation:
2020-2022	23,850	54,400
2023-2030	15,400	31,800
2031 and later years	6,400	4,650

1. For purposes of determining compliance with any System-Wide Annual Tonnage Limitation, DTE shall use NO_X and SO_2 emission data obtained from a CEMS in accordance with the procedures specified in 40 CFR Part 75. If a Unit is Refueled, SO_2 emissions shall be calculated using methods set forth in EPA document AP-42 or by use of a stack test emission factor.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2-10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 13)**

11-1 BR.2. NO_X and SO_2 Allowance Provisions

This Appendix is federally enforceable and was established pursuant to Rule 201(1)(a). This Appendix was originally established in the consent decree settling, "U.S. v DTE Energy and Detroit Edison Company, Civil Action No. 2:10-cv-13101-BAF-RSW, E.D. Michigan, 2020" and also pursuant to Section 324.5503(b) of the Natural Resources and Environmental Protection Act, 1994 Act 451, as amended, and will remain in effect after termination of the consent decree. Definitions specific to this Appendix may be found in Appendix 1-1-B-BR: Definitions. **(Act 451, Section 324.5503(b))**

Use and Surrender of NO_X & SO_2 Allowances

1. DTE shall not use NO_X or SO_2 Allowances to comply with any requirement of the Consent Decree, as enumerated in this permit, including by claiming compliance with any emission limitation required by the Consent Decree, as provided in this permit, by using, tendering, or otherwise applying NO_X or SO_2 Allowances to offset any excess emissions.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2-10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 14)**

2. Except as provided by Appendix 11-1-BR.2: Allowance Provisions, DTE shall not sell, bank, trade, or transfer their interest in any NO_X or SO_2 Allowances allocated to Units in the System. Nothing in the Consent Decree shall restrict DTE's ability to transfer NO_X or SO_2 Allowances among their own facility or general accounts.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2-10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 15)**

3. Beginning in 2021 and continuing in each calendar year thereafter, DTE shall Surrender all NO_X and SO_2 Allowances allocated to the Units in the System for that calendar year that DTE does not need to meet federal and/or state CAA regulatory requirements for the System Units. However, NO_X and SO_2 Allowances allocated to the System may be used by DTE to meet their own federal and/or state CAA regulatory requirements for such Units.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2-10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 16)**

4. Nothing in the Consent Decree shall prevent DTE from purchasing or otherwise obtaining NO_X or SO_2 Allowances from another source for purposes of complying with federal and/or state CAA regulatory requirements to the extent otherwise allowed by law.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2-10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 17)**

Super-Compliant NO_X and SO_2 Allowances

5. Beginning with the year 2021 and continuing in each calendar year thereafter, DTE may sell, bank, use, trade, or transfer NO_X or SO_2 Allowances allocated to the Units in the System that are made available in that calendar year solely as a result of:

   a. achievement and maintenance of an Emission Rate below a 30-Day Rolling Average Emission Rate (per individual unit) of 0.290 lb/MMBTU for NO_X and 0.680 lb/MMBTU for SO_2,

   b. compliance with 2020 Civil Action No. 2-10-cv-13101-BAF-RSW, E.D. Michigan through Retrofit, Refuel or Repowering by the Unit specific dates specified in the Consent Decree Paragraph 7, provided that DTE is also in compliance for that calendar year with all emission limitations for NO_X or SO_2 set forth in the 2020 Civil Action No. 2-10-cv-13101-BAF-RSW, E.D. Michigan as provided in this permit.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2-10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 19)**

Method for Surrender of NO_X and SO_2 Allowances

6. DTE shall Surrender, or transfer to a non-profit third-party selected by DTE for Surrender, all NO_X and SO_2 Allowances required to be Surrendered pursuant to Appendix 11-1-BR. by June 30 of the immediately following calendar year. Such Surrender need not include the specific Allowances that were allocated to DTE System Units, so long as DTE surrenders Allowances that are from the same year or an earlier year and that are equal to the number required to be Surrendered under the Consent Decree as provided in this permit.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2-10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 20)**

7. If any NO_X or SO_2 Allowances required to be Surrendered under Appendix 11-1-BR: Allowance Provisions are transferred directly to a non-profit third-party, DTE shall include a description of such transfer in the next report submitted to EPA pursuant to the Periodic Reporting provisions of 2020 Civil Action 2:10-cv-13101-BAF-RSW, E.D. Michigan (beginning at paragraph 48 of the 2020 Civil Action 2:10-cv-13101-BAF-RSW, E.D. Michigan). Such report shall:

   a. identify the non-profit third-party recipient(s) of the Allowances and list the serial numbers of the transferred Allowances; and

   b. include a certification by the third-party recipient(s) stating that the recipient(s) will not sell, trade, or otherwise exchange any of the Allowances and will not use any of the Allowances to meet any obligation imposed by any environmental law;

   c. include specific calculations demonstrating the basis and specific amounts of NO_X and SO_2 Allowances to be surrendered.

No later than the third periodic report due after the transfer of any Allowances, DTE shall include a statement that the third-party recipient(s) Surrendered the Allowances for permanent Surrender to EPA in accordance with the provisions of Appendix 11-1-BR, "Method for Surrender of NO_X and SO_2 Allowances," within one year after DTE transferred the Allowances to them. DTE shall not have complied with the Allowance Surrender requirements of NO_X and SO_2 Allowance Surrender requirements of Appendix 11-1-BR, "Method for Surrender of NO_X and SO_2 Allowances," until all third-party recipient(s) have actually Surrendered the transferred Allowances to EPA.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2-10-cv-13101-BAF-RSW, E.D. Michigan, paragraphs 21 and 48a(4))**

8. For all Allowances required to be Surrendered, DTE or the third-party recipient(s) (as the case may be) shall, with respect to the Allowances that DTE is to Surrender, ensure than an Allowance transfer request form is first submitted to EPA's Office of Air and Radiation's Clean Air Markets Division directing the transfer of such Allowances to the EPA Enforcement Surrender Account or to any other EPA account that EPA may direct in writing. Such Allowance transfer requests may be made in an electronic manner using the EPA's Clean Air Markets Division Business System, or similar system provided by EPA. As part of submitting these transfer requests, DTE shall ensure that the transfer of their Allowances is irrevocably authorized and that the source and location of the Allowances being Surrendered are identified by name of account and any applicable serial or other identification numbers or station names.[2] **(R 336.1201; Act 451, Section 324.5503(b); 2020 Civil Action No. 2-10-cv-13101-BAF-RSW, E.D. Michigan, Paragraph 22)**

SECTION 2 –PEAKERS

Belle River Peakers, St. Clair Peakers, Dean Peakers

A. GENERAL CONDITIONS

Permit Enforceability

- All conditions in this permit are both federally enforceable and state enforceable unless otherwise noted. **(R 336.1213(5))**

- Those conditions that are hereby incorporated in a state-only enforceable Source-Wide PTI pursuant to Rule 201(2)(d) are designated by footnote one. **(R 336.1213(5)(a), R 336.1214a(5))**

- Those conditions that are hereby incorporated in a federally enforceable Source-Wide PTI pursuant to Rule 201(2)(c) are designated by footnote two. **(R 336.1213(5)(b), R 336.1214a(3))**

General Provisions

1. The permittee shall comply with all conditions of this ROP. Any ROP noncompliance constitutes a violation of Act 451, and is grounds for enforcement action, for ROP revocation or revision, or for denial of the renewal of the ROP. All terms and conditions of this ROP that are designated as federally enforceable are enforceable by the Administrator of the United States Environmental Protection Agency (USEPA) and by citizens under the provisions of the federal Clean Air Act (CAA). Any terms and conditions based on applicable requirements which are designated as "state-only" are not enforceable by the USEPA or citizens pursuant to the CAA. **(R 336.1213(1)(a))**

2. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this ROP. **(R 336.1213(1)(b))**

3. This ROP may be modified, revised, or revoked for cause. The filing of a request by the permittee for a permit modification, revision, or termination, or a notification of planned changes or anticipated noncompliance does not stay any ROP term or condition. This does not supersede or affect the ability of the permittee to make changes, at the permittee's own risk, pursuant to Rule 215 and Rule 216. **(R 336.1213(1)(c))**

4. The permittee shall allow the department, or an authorized representative of the department, upon presentation of credentials and other documents as may be required by law and upon stating the authority for and purpose of the investigation, to perform any of the following activities: **(R 336.1213(1)(d))**
   a. Enter, at reasonable times, a stationary source or other premises where emissions-related activity is conducted or where records must be kept under the conditions of the ROP.
   b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the ROP.
   c. Inspect, at reasonable times, any of the following:
      i. Any stationary source.
      ii. Any emission unit.
      iii. Any equipment, including monitoring and air pollution control equipment.
      iv. Any work practices or operations regulated or required under the ROP.
   d. As authorized by Section 5526 of Act 451, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the ROP or applicable requirements.

5. The permittee shall furnish to the department, within a reasonable time, any information the department may request, in writing, to determine whether cause exists for modifying, revising, or revoking the ROP or to determine compliance with this ROP. Upon request, the permittee shall also furnish to the department copies of any records that are required to be kept as a term or condition of this ROP. For information, which is claimed by the permittee to be confidential, consistent with the requirements of the 1976 PA 442, MCL §15.231 et seq., and known as the Freedom of Information Act, the person may also be required to furnish the records directly to the USEPA together with a claim of confidentiality. **(R 336.1213(1)(e))**

6. A challenge by any person, the Administrator of the USEPA, or the department to a particular condition or a part of this ROP shall not set aside, delay, stay, or in any way affect the applicability or enforceability of any other condition or part of this ROP. **(R 336.1213(1)(f))**

7. The permittee shall pay fees consistent with the fee schedule and requirements pursuant to Section 5522 of Act 451. **(R 336.1213(1)(g))**

8. This ROP does not convey any property rights or any exclusive privilege. **(R 336.1213(1)(h))**

Equipment & Design

9. Any collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2). **(R 336.1370)**

10. Any air cleaning device shall be installed, maintained, and operated in a satisfactory manner and in accordance with the Michigan Air Pollution Control rules and existing law. **(R 336.1910)**

Emission Limits

11. Unless otherwise specified in this ROP, the permittee shall comply with Rule 301, which states, in part, "Except as provided in subrules 2, 3, and 4 of this rule, a person shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of a density greater than the most stringent of the following: **(R 336.1301(1))**
    a. A 6-minute average of 20 percent opacity, except for one 6-minute average per hour of not more than 27 percent opacity.
    b. A limit specified by an applicable federal new source performance standard.

    The grading of visible emissions shall be determined in accordance with Rule 303.

12. The permittee shall not cause or permit the emission of an air contaminant or water vapor in quantities that cause, alone or in reaction with other air contaminants, either of the following:
    a. Injurious effects to human health or safety, animal life, plant life of significant economic value, or property.[1] **(R 336.1901(a))**
    b. Unreasonable interference with the comfortable enjoyment of life and property.[1] **(R 336.1901(b))**

Testing/Sampling

13. The department may require the owner or operator of any source of an air contaminant to conduct acceptable performance tests, at the owner's or operator's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001(1). **(R 336.2001)**

14. Any required performance testing shall be conducted in accordance with Rule 1001(2), Rule 1001(3) and Rule 1003. **(R 336.2001(2), R 336.2001(3), R 336.2003(1))**

15. Any required test results shall be submitted to the Air Quality Division (AQD) in the format prescribed by the applicable reference test method within 60 days following the last date of the test. **(R 336.2001(5))**

Monitoring/Recordkeeping

16. Records of any periodic emission or parametric monitoring required in this ROP shall include the following information specified in Rule 213(3)(b)(i), where appropriate. **(R 336.1213(3)(b))**
    a. The date, location, time, and method of sampling or measurements.
    b. The dates the analyses of the samples were performed.
    c. The company or entity that performed the analyses of the samples.
    d. The analytical techniques or methods used.
    e. The results of the analyses.
    f. The related process operating conditions or parameters that existed at the time of sampling or measurement.

17. All required monitoring data, support information and all reports, including reports of all instances of deviation from permit requirements, shall be kept and furnished to the department upon request for a period of not less than 5 years from the date of the monitoring sample, measurement, report or application. Support information includes all calibration and maintenance records and all original strip-chart recordings, or other original data records, for continuous monitoring instrumentation and copies of all reports required by the ROP. **(R 336.1213(1)(e), R 336.1213(3)(b)(ii))**

Certification & Reporting

18. Except for the alternate certification schedule provided in Rule 213(3)(c)(iii)(B), any document required to be submitted to the department as a term or condition of this ROP shall contain an original certification by a Responsible Official which states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. **(R 336.1213(3)(c))**

19. A Responsible Official shall certify to the appropriate AQD District Office and to the USEPA that the stationary source is and has been in compliance with all terms and conditions contained in the ROP except for deviations that have been or are being reported to the appropriate AQD District Office pursuant to Rule 213(3)(c). This certification shall include all the information specified in Rule 213(4)(c)(i) through (v) and shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the certification are true, accurate, and complete. The annual compliance certification (pursuant to Rule 213(4)(c)) shall be submitted to the USEPA through the USEPA's Central Data Exchange (CDX) using the Compliance and Emissions Data Reporting Interface (CEDRI), which can be accessed through CDX (https://cdx.epa.gov/), unless it contains confidential business information then use the following address: USEPA, Air Compliance Data - Michigan, Air and Radiation Division, 77 West Jackson Boulevard, Chicago, Illinois 60604-3507. **(R 336.1213(4)(c))**

20. The certification of compliance shall be submitted annually for the term of this ROP as detailed in the special conditions, or more frequently if specified in an applicable requirement or in this ROP. **(R 336.1213(4)(c))**

21. The permittee shall promptly report any deviations from ROP requirements and certify the reports. The prompt reporting of deviations from ROP requirements is defined in Rule 213(3)(c)(ii) as follows, unless otherwise described in this ROP. **(R 336.1213(3)(c))**
    a. For deviations that exceed the emissions allowed under the ROP, prompt reporting means reporting consistent with the requirements of Rule 912 as detailed in Condition 25. All reports submitted pursuant to this paragraph shall be promptly certified as specified in Rule 213(3)(c)(iii).
    b. For deviations which exceed the emissions allowed under the ROP and which are not reported pursuant to Rule 912 due to the duration of the deviation, prompt reporting means the reporting of all deviations in the semiannual reports required by Rule 213(3)(c)(i). The report shall describe reasons for each deviation and the actions taken to minimize or correct each deviation.
    c. For deviations that do not exceed the emissions allowed under the ROP, prompt reporting means the reporting of all deviations in the semiannual reports required by Rule 213(3)(c)(i). The report shall describe the reasons for each deviation and the actions taken to minimize or correct each deviation.

22. For reports required pursuant to Rule 213(3)(c)(ii), prompt certification of the reports is described in Rule 213(3)(c)(iii) as either of the following: **(R 336.1213(3)(c))**
    a. Submitting a certification by a Responsible Official with each report which states that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
    b. Submitting, within 30 days following the end of a calendar month during which one or more prompt reports of deviations from the emissions allowed under the ROP were submitted to the department pursuant to Rule 213(3)(c)(ii), a certification by a Responsible Official which states that, "based on information and belief formed after reasonable inquiry, the statements and information contained in each of the reports submitted during the previous month were true, accurate, and complete". The certification shall include a listing of the reports that are being certified. Any report submitted pursuant to Rule 213(3)(c)(ii) that will be certified on a monthly basis pursuant to this paragraph shall include a statement that certification of the report will be provided within 30 days following the end of the calendar month.

23. Semiannually for the term of the ROP as detailed in the special conditions, or more frequently if specified, the permittee shall submit certified reports of any required monitoring to the appropriate AQD District Office. All instances of deviations from ROP requirements during the reporting period shall be clearly identified in the reports. **(R 336.1213(3)(c)(i))**

24. On an annual basis, the permittee shall report the actual emissions, or the information necessary to determine the actual emissions, of each regulated air pollutant as defined in Rule 212(6) for each emission unit utilizing the emissions inventory forms provided by the department. **(R 336.1212(6))**

25. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the appropriate AQD District Office. The notice shall be provided not later than two business days after the start-up, shutdown, or discovery of the abnormal conditions or malfunction. Notice shall be by any reasonable means, including electronic, telephonic, or oral communication. Written reports, if required under Rule 912, must be submitted to the appropriate AQD District Supervisor within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal conditions or malfunction has been corrected, or within 30 days of discovery of the abnormal conditions or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5) and shall be certified by a Responsible Official in a manner consistent with the CAA. **(R 336.1912)**

Permit Shield

26. Compliance with the conditions of the ROP shall be considered compliance with any applicable requirements as of the date of ROP issuance, if either of the following provisions is satisfied. **(R 336.1213(6)(a)(i), R 336.1213(6)(a)(ii))**
    a. The applicable requirements are included and are specifically identified in the ROP.
    b. The permit includes a determination or concise summary of the determination by the department that other specifically identified requirements are not applicable to the stationary source.

    Any requirements identified in Part E of this ROP have been identified as non-applicable to this ROP and are included in the permit shield.

27. Nothing in this ROP shall alter or affect any of the following:
    a. The provisions of Section 303 of the CAA, emergency orders, including the authority of the USEPA under Section 303 of the CAA. **(R 336.1213(6)(b)(i))**
    b. The liability of the owner or operator of this source for any violation of applicable requirements prior to or at the time of this ROP issuance. **(R 336.1213(6)(b)(ii))**
    c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the CAA. **(R 336.1213(6)(b)(iii))**

d. The ability of the USEPA to obtain information from a source pursuant to Section 114 of the CAA. **(R 336.1213(6)(b)(iv))**

28. The permit shield shall not apply to provisions incorporated into this ROP through procedures for any of the following:
    a. Operational flexibility changes made pursuant to Rule 215. **(R 336.1215(5))**
    b. Administrative Amendments made pursuant to Rule 216(1)(a)(i)-(iv). **(R 336.1216(1)(b)(iii))**
    c. Administrative Amendments made pursuant to Rule 216(1)(a)(v) until the amendment has been approved by the department. **(R 336.1216(1)(c)(iii))**
    d. Minor Permit Modifications made pursuant to Rule 216(2). **(R 336.1216(2)(f))**
    e. State-Only Modifications made pursuant to Rule 216(4) until the changes have been approved by the department. **(R 336.1216(4)(e))**

29. Expiration of this ROP results in the loss of the permit shield. If a timely and administratively complete application for renewal is submitted not more than 18 months, but not less than 6 months, before the expiration date of the ROP, but the department fails to take final action before the end of the ROP term, the existing ROP does not expire until the renewal is issued or denied, and the permit shield shall extend beyond the original ROP term until the department takes final action. **(R 336.1217(1)(c), R 336.1217(1)(a))**

Revisions

30. For changes to any process or process equipment covered by this ROP that do not require a revision of the ROP pursuant to Rule 216, the permittee must comply with Rule 215. **(R 336.1215, R 336.1216)**

31. A change in ownership or operational control of a stationary source covered by this ROP shall be made pursuant to Rule 216(1). **(R 336.1219(2))**

32. For revisions to this ROP, an administratively complete application shall be considered timely if it is received by the department in accordance with the time frames specified in Rule 216. **(R 336.1210(9))**

33. Pursuant to Rule 216(1)(b)(iii), Rule 216(2)(d) and Rule 216(4)(d), after a change has been made, and until the department takes final action, the permittee shall comply with both the applicable requirements governing the change and the ROP terms and conditions proposed in the application for the modification. During this time period, the permittee may choose to not comply with the existing ROP terms and conditions that the application seeks to change. However, if the permittee fails to comply with the ROP terms and conditions proposed in the application during this time period, the terms and conditions in the ROP are enforceable. **(R 336.1216(1)(c)(iii), R 336.1216(2)(d), R 336.1216(4)(d))**

Reopenings

34. A ROP shall be reopened by the department prior to the expiration date and revised by the department under any of the following circumstances:
    a. If additional requirements become applicable to this stationary source with three or more years remaining in the term of the ROP, but not if the effective date of the new applicable requirement is later than the ROP expiration date. **(R 336.1217(2)(a)(i))**
    b. If additional requirements pursuant to Title IV of the CAA become applicable to this stationary source. **(R 336.1217(2)(a)(ii))**
    c. If the department determines that the ROP contains a material mistake, information required by any applicable requirement was omitted, or inaccurate statements were made in establishing emission limits or the terms or conditions of the ROP. **(R 336.1217(2)(a)(iii))**
    d. If the department determines that the ROP must be revised to ensure compliance with the applicable requirements. **(R 336.1217(2)(a)(iv))**

Renewals

35. For renewal of this ROP, an administratively complete application shall be considered timely if it is received by the department not more than 18 months, but not less than 6 months, before the expiration date of the ROP. **(R 336.1210(7))**

Stratospheric Ozone Protection

36. If the permittee is subject to Title 40 of the Code of Federal Regulations (CFR), Part 82 and services, maintains, or repairs appliances except for motor vehicle air conditioners (MVAC), or disposes of appliances containing refrigerant, including MVAC and small appliances, or if the permittee is a refrigerant reclaimer, appliance owner or a manufacturer of appliances or recycling and recovery equipment, the permittee shall comply with all applicable standards for recycling and emissions reduction pursuant to 40 CFR, Part 82, Subpart F.

37. If the permittee is subject to 40 CFR, Part 82, and performs a service on motor (fleet) vehicles when this service involves refrigerant in the MVAC, the permittee is subject to all the applicable requirements as specified in 40 CFR, Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term “motor vehicle” as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed by the original equipment manufacturer. The term MVAC as used in Subpart B does not include the air-tight sealed refrigeration system used for refrigerated cargo or an air conditioning system on passenger buses using Hydrochlorofluorocarbon-22 refrigerant.

Risk Management Plan

38. If subject to Section 112(r) of the CAA and 40 CFR, Part 68, the permittee shall register and submit to the USEPA the required data related to the risk management plan for reducing the probability of accidental releases of any regulated substances listed pursuant to Section 112(r)(3) of the CAA as amended in 40 CFR, Part 68.130. The list of substances, threshold quantities, and accident prevention regulations promulgated under 40 CFR, Part 68, do not limit in any way the general duty provisions under Section 112(r)(1).

39. If subject to Section 112(r) of the CAA and 40 CFR, Part 68, the permittee shall comply with the requirements of 40 CFR, Part 68, no later than the latest of the following dates as provided in 40 CFR, Part 68.10(a):
    a. June 21, 1999,
    b. Three years after the date on which a regulated substance is first listed under 40 CFR, Part 68.130, or
    c. The date on which a regulated substance is first present above a threshold quantity in a process.

40. If subject to Section 112(r) of the CAA and 40 CFR, Part 68, the permittee shall submit any additional relevant information requested by any regulatory agency necessary to ensure compliance with the requirements of 40 CFR, Part 68.

41. If subject to Section 112(r) of the CAA and 40 CFR, Part 68, the permittee shall annually certify compliance with all applicable requirements of Section 112(r) as detailed in Rule 213(4)(c)). **(40 CFR Part 68)**

Emission Trading

42. Emission averaging and emission reduction credit trading are allowed pursuant to any applicable interstate or regional emission trading program that has been approved by the Administrator of the USEPA as a part of Michigan’s State Implementation Plan. Such activities must comply with Rule 215 and Rule 216. **(R 336.1213(12))**

Permit to Install (PTI)

43. The process or process equipment included in this permit shall not be reconstructed, relocated, or modified unless a PTI authorizing such action is issued by the department, except to the extent such action is exempt from the PTI requirements by any applicable rule. [2] **(R 336.1201(1))**

44. The department may, after notice and opportunity for a hearing, revoke PTI terms or conditions if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of the PTI or is violating the department's rules or the CAA. [2] **(R 336.1201(8), Section 5510 of Act 451)**

46. The terms and conditions of a PTI shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by the PTI. If a new owner or operator submits a written request to the department pursuant to Rule 219 and the department approves the request, this PTI will be amended to reflect the change of ownership or operational control. The request must include all of the information required by Subrules (1)(a), (b) and (c) of Rule 219. The written request shall be sent to the appropriate AQD District Supervisor, EGLE.[2] **(R 336.1219)**

47. If the installation, reconstruction, relocation, or modification of the equipment for which PTI terms and conditions have been approved has not commenced within 18 months of the original PTI issuance date, or has been interrupted for 18 months, the applicable terms and conditions from that PTI, as incorporated into the ROP, shall become void unless otherwise authorized by the department. Furthermore, the person to whom that PTI was issued, or the designated authorized agent, shall notify the department via the Supervisor, Permit Section, EGLE, AQD, P. O. Box 30260, Lansing, Michigan 48909, if it is decided not to pursue the installation, reconstruction, relocation, or modification of the equipment allowed by the terms and conditions from that PTI.[2] **(R 336.1201(4))**

Footnotes:
[1]This condition is state-only enforceable and was established pursuant to Rule 201(1)(b).
[2]This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

B. SOURCE-WIDE CONDITIONS

Part B outlines the Source-Wide Terms and Conditions that apply to this stationary source. The permittee is subject to these special conditions for the stationary source in addition to the general conditions in Part A and any other terms and conditions contained in this ROP.

The permittee shall comply with all specific details in the special conditions and the underlying applicable requirements cited. If a specific condition type does not apply to this source, NA (not applicable) has been used in the table. If there are no Source-Wide Conditions, this section will be left blank.

C. EMISSION UNIT SPECIAL CONDITIONS

Part C outlines terms and conditions that are specific to individual emission units listed in the Emission Unit Summary Table. The permittee is subject to the special conditions for each emission unit in addition to the General Conditions in Part A and any other terms and conditions contained in this ROP.

The permittee shall comply with all specific details in the special conditions and the underlying applicable requirements cited. If a specific condition type does not apply, NA (not applicable) has been used in the table. If there are no conditions specific to individual emission units, this section will be left blank.

EMISSION UNIT SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-DG11-1-BP	Belle River Peakers DG 11-1, diesel fuel-fired, 2.5 MW peaking unit, “limited-use” per 40 CFR 63.6590(b)(3)(iv), stationary reciprocating internal combustion engine (RICE).	11-01-1969	FG-DIESEL-BP
EU-DG11-2-BP	Belle River Peakers DG 11-2, diesel fuel-fired, 2.5 MW peaking unit, “limited-use” per 40 CFR 63.6590(b)(3)(iv), stationary reciprocating internal combustion engine (RICE).	11-01-1969	FG-DIESEL-BP
EU-DG11-3-BP	Belle River Peakers DG 11-3, diesel fuel-fired, 2.5 MW peaking unit, “limited-use” per 40 CFR 63.6590(b)(3)(iv), stationary reciprocating internal combustion engine (RICE).	11-01-1969	FG-DIESEL-BP
EU-DG11-4-BP	Belle River Peakers DG 11-4, diesel fuel-fired, 2.5 MW peaking unit, “limited-use” per 40 CFR 63.6590(b)(3)(iv), stationary reciprocating internal combustion engine (RICE).	11-01-1969	FG-DIESEL-BP
EU-DG11-5-BP	Belle River Peakers DG 11-5, diesel fuel-fired, 2.5 MW peaking unit, “limited-use” per 40 CFR 63.6590(b)(3)(iv), stationary reciprocating internal combustion engine (RICE).	11-01-1969	FG-DIESEL-BP
EU-CTG12-1-BP	Belle River Peakers CTG 12-1, 82.4 MW nominally rated natural gas-fired simple cycle combustion turbine generator. Equipped with dry low-NO_X burner.	01-01-1999 07-23-2001	FG-CTG-BP
EU-CTG12-2-BP	Belle River Peakers CTG 12-2, 82.4 MW nominally rated natural gas-fired simple cycle combustion turbine generator. Equipped with dry low-NO_X burner.	01-01-1999 07-23-2001	FG-CTG-BP

Section 2 – Peakers

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-CTG13-1-BP	Belle River Peakers CTG 13-1, 82.4 MW nominally rated natural gas-fired simple cycle combustion turbine generator. Equipped with dry low-NO_X burner.	01-01-1999 07-23-2001	FG-CTG-BP
EU-CTG11-1-SP	St. Clair Peakers CTG 11-1, 23 MW natural gas-fired peaking combustion turbine generator .	01-01-1968	NA
EU-DG12-1-SP	St. Clair Peakers DG 12-1, diesel fuel-fired, 2.75 MW peaking unit, “limited-use” per 40 CFR 63.6590(b)(3)(iv), stationary reciprocating internal combustion engine (RICE).	01-01-1970	FG-DIESEL-SP
EU-DG12-2-SP	St. Clair Peakers DG-12-2, diesel fuel-fired, 2.75 MW peaking unit, “limited-use” per 40 CFR 63.6590(b)(3)(iv), stationary reciprocating internal combustion engine (RICE).	01-01-1970	FG-DIESEL-SP
EU-CTG12-2-DP	Dean Peakers CTG 12-2, natural gas-fired, simple-cycle combustion turbine generator with dry low-NO_X burner peaking unit nominally rated at 82.4 megawatts at ISO conditions.	04-21-2002	FG-CTG-DP
EU-CTG12-1-DP	Dean Peakers CTG 12-1, natural gas- fired, simple-cycle combustion turbine generator with dry low-NO_X burner peaking unit nominally rated at 82.4 megawatts at ISO conditions.	05-04-2002	FG-CTG-DP
EU-CTG11-1-DP	Dean Peakers CTG 11-1, natural gas- fired, simple-cycle combustion turbine generator with dry low-NO_X burner peaking unit nominally rated at 82.4 megawatts at ISO conditions.	05-10-2002	FG-CTG-DP
EU-CTG11-2-DP	Dean Peakers CTG 11-2, natural gas- fired, simple-cycle combustion turbine generator with dry low-NO_X burner peaking unit nominally rated at 82.4 megawatts at ISO conditions	05-13-2002	FG-CTG-DP

EU-CTG11-1-SP
EMISSION UNIT CONDITIONS

DESCRIPTION

St. Clair Peakers CTG 11-1, 23 MW natural gas-fired peaking combustion turbine generator.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall only fire pipeline quality natural gas, as defined in 40 CFR 72.2, in the combustion turbines. **(R 336.1213(3))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of 5 years. **(R 336.1213(3)(b)(ii))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of 5 years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall keep a record of the dates when the unit is in use. **(R 336.1213(3))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by appropriate the AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

See Appendix 8-2 P

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:
[1]This condition is state-only enforceable and was established pursuant to Rule 201(1)(b).
[2]This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

D. FLEXIBLE GROUP SPECIAL CONDITIONS

Part D outlines the terms and conditions that apply to more than one emission unit. The permittee is subject to the special conditions for each flexible group in addition to the General Conditions in Part A and any other terms and conditions contained in this ROP.

The permittee shall comply with all specific details in the special conditions and the underlying applicable requirements cited. If a specific condition type does not apply, NA (not applicable) has been used in the table. If there are no special conditions that apply to more than one emission unit, this section will be left blank.

FLEXIBLE GROUP SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-DIESEL-SP	St. Clair Peakers – Two (2) diesel fuel-fired, "limited-use" (per 40CFR 63.6590(b)(3)(iv)), stationary reciprocating internal combustion engine (RICE) peaking units each rated at 2.75 MW.	EU-DG12-1-SP EU-DG12-2-SP
FG-DIESEL-BP	Belle River Peakers - Five (5) diesel fuel-fired, "limited-use" (per 40 CFR 63.6590(b)(3)(iv)), stationary reciprocating internal combustion engine (RICE) peaking units each rated at 2.5 MW (existing RICE >500 HP non-emergency compression ignition engine constructed before December 19, 2002).	EU-DG11-1-BP EU-DG11-2-BP EU-DG11-3-BP EU-DG11-4-BP EU-DG11-5-BP
FG-CTG-BP	Belle River Peakers - Three (3) natural gas-fired, simple cycle combustion turbine generator units. Each equipped with dry low-NO_X burners nominally rated at 82.4 megawatts at ISO conditions.	EU-CTG12-1-BP EU-CTG12-2-BP EU-CTG13-1-BP
FG-CTG-DP	Dean Peakers - Four (4) natural gas-fired, simple cycle combustion turbine generator, each with dry low-NO_X burner peaking units rated nominally at 82.4 megawatts at ISO conditions.	EU-CTG12-2-DP EU-CTG12-1-DP EU-CTG11-1-DP EU-CTG11-2-DP

FG-DIESEL-SP
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

St. Clair Peakers. Two (2) 2.75 MW diesel-fired, "limited-use" (per 40 CFR 63.6590(b)(3)(iv)) stationary reciprocating internal combustion engines (RICE) peaking units (existing RICE >500 HP non-emergency compression ignition engine constructed before December 19, 2002).

Emission Units: EU-DG12-1-SP, EU-DG12-2-SP

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. The permittee shall burn only diesel fuel in each engine in FG-DIESEL-SP with a maximum sulfur content of 15 ppm (0.0015 percent) by weight and a minimum Cetane index of 40 or a maximum aromatic content of 35 volume percent. **(R 336.1213(2), 40 CFR 1090.305)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate each engine in FG-DIESEL-SP for more than 99.9 hours per 12-month time period as determined at the end of each calendar month. **(R 336.1213(2)(d), 40 CFR 63.6675)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each engine in FG-DIESEL-SP with non-resettable hours meters to track the operating hours. **(R 336.1213(3))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall monitor and record in a satisfactory manner, the total hours of operation for each engine in FG-DIESEL-SP through the non-resettable hour meter on a monthly and 12-month time period on a calendar year basis. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1213(3))**

2. The permittee shall keep, in a satisfactory manner, fuel supplier certification records or fuel sample test data, for each delivery of diesel fuel oil used in FG-DIESEL-SP, demonstrating that the fuel meets the requirement of SC II.1. The certification or test data shall include the name of the oil supplier or laboratory, the sulfur content, and cetane index or aromatic content of the fuel oil. The permittee shall keep all records on file and make them available to the department upon request. **(R 336.1213(3))**

3. The permittee shall conduct non-certified visible emissions observation of the diesel generators at least once per day when the generators are operating continuously for 24 hours or more. The permittee shall initiate corrective action upon observation of excessive visible emissions and shall keep a written record of each required observation and corrective action. **(R 336.1213(3))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

See Appendix 8-2 P

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subparts A and ZZZZ, for Stationary Reciprocating Internal Combustion Engines by the initial compliance date. Per 40 CFR63.6590(b)(3)(iv), existing limited use stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions do not have to meet the requirements of 40 CFR Part 63, Subparts A and ZZZZ. **(40 CFR Part 63, Subparts A and ZZZZ)**

FG-DIESEL-BP
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Belle River Peakers - Five (5) diesel fuel-fired, "limited-use" (per 40 CFR 63.6590(b)(3)(iv)), stationary reciprocating internal combustion engine (RICE) peaking units each rated at 2.5 MW (existing RICE >500 HP non-emergency compression ignition engine constructed before December 19, 2002).

Emission Units: EU-DG11-1-BP, EU-DG11-2-BP, EU-DG11-3-BP, EU-DG11-4-BP, EU-DG11-5-BP

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Diesel Fuel	0.7% sulfur by weight with heat value of 19,502 BTUs/lb*[2]	As-fired	FG-DIESEL-BP	SC VI.3	**R 336.1201(3)**

* This is equivalent to 0.72 lb SO_2/MMBTU of heat input.

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate these engines more than 11,875 megawatt hours per year.[2] **(R 336.1201(3))**

2. The permittee shall not operate each engine in FG-DIESEL-BP for more than 99.9 hours per 12-month time period as determined at the end of each calendar month. **(R 336.1213(2)(d), 40 CFR 63.6675)**

3. At all times the permittee must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. **(R 336.1213(2)(d))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each engine in FG-DIESEL-BP with a non-resettable hour meter to track the number of hours the engine operates. **(R 336.1213(3))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall monitor and record, in a satisfactory manner, monthly and 12-month rolling power output for FG-DIESEL-BP engines megawatt hours per year. **(R 336.1213(3))**

2. The permittee shall monitor and record in a satisfactory manner, the total hours of operation for each engine in FG-DIESEL-BP on a monthly and 12-month time period on a calendar year basis. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1213(3))**

3. For each engine in FG-DIESEL-BP, the permittee shall keep in a satisfactory manner, records of the maintenance conducted to demonstrate that the engine and after-treatment control device (if any) were operated and maintained according to the developed maintenance plan. The permittee shall keep all records on file and make them available to the department upon request. **(R 336.1213(3))**

4. The permittee shall conduct non-certified visible emissions observation of the diesel generators at least once per day when the generators are operating continuously for 24 hours or more. The permittee shall initiate corrective action upon observation of excessive visible emissions and shall keep a written record of each required observation and corrective action. **(R 336.1213(3))**

5. The permittee shall keep, in a satisfactory manner, fuel supplier certification records or fuel sample test data, for each delivery of diesel fuel oil used in FG-DIESEL-BP, demonstrating that the fuel meets the requirement of SC II.1. The certification or test data shall include the name of the oil supplier or laboratory, the sulfur content and heat content of the fuel oil. The permittee shall keep all records on file and make them available to the department upon request. **(R 336.1213(3))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

See Appendix 8-2 P

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-507-031-BP	32^2	20^2	**R 336.1201(3)**
2. SV-507-027-BP	32^2	20^2	**R 336.1201(3)**
3. SV-507-023-BP	32^2	20^2	**R 336.1201(3)**
4. SV-507-019-BP	32^2	20^2	**R 336.1201(3)**
5. SV-507-015-BP	32^2	20^2	**R 336.1201(3)**

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subparts A and ZZZZ, for stationary reciprocating internal combustion engine (RICE), upon start-up. Per 40 CFR 63.6590(b)(3)(iv), existing limited use stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions do not have to meet the requirements of 40 CFR Part 63, Subparts A and ZZZZ. **(40 CFR Part 63, Subparts A and ZZZZ)**

Footnotes:
[1] This condition is state only enforceable and was established pursuant to Rule 201(1)(b).
[2] This condition is federally enforceable and was established pursuant to

FG-CTG-BP
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Belle River Peakers - Three (3) natural gas-fired simple cycle combustion turbine generator (CTG) units each nominally rated at 82.4 MW. The combustion turbines are equipped with dry low-NOx burners.

Emission Units: EU-CTG12-1-BP, EU-CTG12-2-BP, EU-CTG13-1-BP

POLLUTION CONTROL EQUIPMENT

Dry Low-NO_X Burners

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NO_X	9 ppm by volume at 15% oxygen & on a dry gas basis[2]	Average of all operating hours in a calendar day; excluding startup, shutdown, and malfunction	Each turbine during steady state operations	SC V.1	**R 336.1205(1)(a) & (b)** **R 336.2810** **R 336.2803** **R 336.2804** **40 CFR 52.21(c) & (d)** **40 CFR 60.332(a)(1)**
2. NO_X	60 ppm by volume at 15%oxygen & on a dry gas basis[2]	Hourly	Each Turbine	SC IV.2	**R 336.2804** **R 336.2810** **40 CFR 52.21(c) & (d)** **40 CFR 52.21(j)**
3. NO_X	100 ppm by volume at 15% oxygen & on a dry gas basis	Hourly, rolling arithmetic 4-unit operating hour average, determined at the end of each Unit Operating Hour, excluding startup, shutdown, and malfunction	Each emission unit in FG-CTG-BP	SC IV.2	**40 CFR 60.332(a)(1)** **40 CFR 60.8(c)**
4. NO_X	230 tons per year[2]	Based on a rolling 12-month period, as determined at the end of each month excluding startup, shutdown and malfunction	FG-CTG-BP	SC V.1, VI.3 and Appendix 7-2 P	**R 336.2803** **R 336.2804** **R 336.1205(1)(a) & (b)** **40 CFR 52.21(c) &(d)** **40 CFR 52.21(j)**
5. CO	25 ppm by volume at 15% oxygen & on a dry gas basis[2]	Average of all operating hours in a calendar day, excluding startup, shutdown and malfunction	Each turbine	SC V.1	**R 336.1205(1)(a) & (b)** **R 336.2803** **R 336.2804** **40 CFR 52.21(c) & (d)** **40 CFR 52.21(j)**

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
6. CO	382 tons per year[2]	Based on a rolling 12-month period, as determined at the end of each month, excluding startup, shutdown, and malfunction	FG-CTG-BP	SC V.1, VI.3 and Appendix 7-2 P	**R 336.1205(1)(a) & (b) R 336.2803 R 336.2804 40 CFR 52.21(c) & (d) 40 CFR 52.21(j)**
7. PM10	9 pounds per hour[2]	Average of all operating hours in a calendar day, excluding startup, shutdown, and malfunction	Each Turbine	SC V.2	**R 336.1205(1)(a) & (b) R 336.2803 R 336.2804 40 CFR 52.21(c) & (d) 40 CFR 52.21(j**
8. PM10	50.4 tons per year[2]	Based on a rolling 12-month period, as determined at the end of each month, excluding startup, shutdown, and malfunction	FG-CTG-BP	SC V.2 and Appendix 7-2 P	**R 336.1205(1)(a) & (b) R 336.2803 R 336.2804 40 CFR 52.21(c) & (d) FR 52.21(j)**
9. Opacity	10%, except for uncombined water vapor[2]	6-minute average, excluding startup, shutdown, and malfunction	Each turbine	SC V.3 and VI.2	**R 336.1301(1)(c) 40 CFR 52.21(j)**

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Natural Gas	13,600 MM scf.[2]	Based on a rolling 12-month period, as determined at the end of each month[2]	FG-CTG-BP	SC VI.5 and VI.8	**R 336.1205(1)(a) & (b) R 336.2803 R 336.2804 40 CFR 52.21(c) & (d) 40 CFR 52.21(j)**
2. Sulfur in Natural Gas	0.8 grain per 100 standard cu. ft.[2]	As-fired	FG-CTG-BP	SC III.1	**R 336.1225 R 336.2803 R 336.2804 R 336.1702(a) 40 CFR 52.21(c) & (d) 40 CFR 52.21 40 CFR 60.333(b)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall only burn pipeline quality natural gas in each turbine.[2] **(R 336.1225, R 336.2803, R 336.2804, R 336.1702(a), 40 CFR 52.21(c) & (d), 40 CFR 52.21(j), 40 CFR 60.333(b))**

2. The total hours for startup and shutdown for FG-CTG-BP shall not exceed 500 hours per turbine per 12-month rolling time period as determined at the end of each calendar month. Startup is defined as the period of time from initiation of combustion firing until the unit reaches steady state operation (e.g., when premix operating mode is achieved). Shutdown is defined as that period of time from the initial lowering of the turbine output, with the intent to shut down, until the point at which the combustion process has stopped.[2] **(R 336.1205, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d))**

3. The permittee shall not operate FG-CTG-BP unless all provisions of the Federal Prevention of Significant Deterioration regulations, 40 CFR 52.21, are met.[2] **(40 CFR 52.21)**

4. The permittee shall maintain and implement the approved "Emission Minimization Plan" describing how emissions will be minimized during startup(s), shutdown(s) and malfunction(s). The plan shall incorporate procedures recommended by the equipment manufacturer as well as incorporating standard industry practices. Alternative plans or modifications to the approved plan must be approved by the District Supervisor.[2] **(R 336.1911, R 336.1912, R 336.2810, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d), 40 CFR 52.21(j))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each turbine with a dry low-NO_X combustor.[2] **(R 336.1910, R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(c) & (d), 40 CFR 52.21(j))**

2. The permittee shall install, calibrate, maintain, and operate devices or equipment to monitor and record the NO_X emissions and oxygen (O_2) or (CO_2) content of the exhaust gas from each turbine in FG-CTG-BP on a continuous basis, and to meet the timelines and reporting requirements as described in Appendix 3-2 P. The Continuous Emission Monitoring System (CEMS) shall be installed, calibrated, maintained, and operated in accordance with the procedures set forth in 40 CFR 60.13 and PS 2 for NO_X and PS 3 for O2 or CO_2 of Appendix B to 40 CFR Part 60.[2] **(R 336.1205(1)(a) & (b), R 336.2150(1)(b), (d), and (e), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(c) & (d), 40 CFR 60.13, 40 CFR 75.12(d)(2), 40 CFR 72.12(c), 40 CFR Part 75, Appendix B & F)**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall conduct NO_X and CO emission rate testing, at owner's expense, for each turbine at least once every 20 calendar quarters. NO_X and CO emissions testing will be conducted at two operating load points, one at maximum load and one other mid load. Testing shall be performed using approved EPA Test Methods listed in 40 CFR Part 60, Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee shall notify the AQD no less than 7 days prior to the anticipated test date. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.[2] **(R 336.1205(1)(a) & (b), R 336.1902, R 336.2001, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d), 40 CFR 52.21(j), 40 CFR 60.8, 40 CFR 60.335, 40 CFR Part 75, Appendix E)**

2. The permittee shall verify PM10 emission rates from each turbine by testing, at owner's expense, in accordance with Department requirements will be required once every five years. Testing must be done for each turbine at 70% and 100% of base load. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 51, Appendix M. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee shall notify the AQD no less than 7 days prior to the anticipated test date. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.[2] **(R 336.1205(1)(a) & (b), R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d), 40 CFR 52.21(j))**

3. The permittee shall conduct federal Reference Method 9 visible emissions reading for each turbine at least once per 1200 hours of operation.[2] **(R 336.1301, 40 CFR 52.21(j))**

4. An alternate method, or a modification to the approved USEPA Method, may be specified in an AQD-approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**

5. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor not less than 30 days before testing of the time and place performance tests will be conducted. **(R 336.1213(3))**

See Appendix 5-2 P

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any recordkeeping, reporting or notification special condition.[2] **(R 336.1205(3))**

2. The permittee shall keep a record of federal Reference Method 9 visible emissions reading conducted for each turbine at least once per 1200 hours of operation.[2] **(R 336.1301, 40 CFR 52.21)**

3. The permittee shall calculate NO_X, CO, and PM10 emission rates on a monthly and previous 12-month rolling time period. These emission calculations shall be based upon Appendix 7-2 P.[2] **(R 336.1205(1)(a) & (b), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j), 40 CFR Part 60, Subpart GG)**

4. The permittee shall monitor the nitrogen content in the fuel in accordance with 40 CFR 60.334(h)(2) if an allowance for fuel bound nitrogen is claimed.[2] **(40 CFR 60.334(h)(2))**

5. For each turbine, the permittee shall continuously monitor and record hourly the natural gas usage with instrumentation in a manner acceptable to the AQD District Supervisor.[2] **(R 336.1205(1)(a) & (b), R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d), 40 CFR 52.21(j))**

6. For each turbine, the permittee shall keep records of hours of startup and shutdown.[2] **(R 336.1205(1)(a) & (b), R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d), 40 CFR 52.21(j))**

7. The permittee shall use one of the following sources of information to demonstrate the gaseous fuel burned in FG-CTG-BP is natural gas, as defined in 40 CFR 60.331(u): **(40 CFR 60.334(h)(3))**

   a. The gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less. **(40 CFR 60.334(h)(3)(i))**

   b. Representative fuel sampling data which show that the sulfur content of the gaseous fuel does not exceed 20 grains/100 scf. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of Appendix D to 40 CFR Part 75 is required. **(40 CFR 60.334(h)(3)(ii))**

8. The permittee shall record natural gas usage rate in terms of million cubic feet on a monthly and a 12-month rolling time period. **(R 336.1213(3)**

See Appendix 3-2 P

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

4. After CEMS are installed, the permittee shall report NO_X and either O_2 or CO_2 emissions in accordance with 40 CFR Part 75 within 30 days following the end of each calendar quarter.[2] **(R 336.1213(3), 40 CFR 75.64)**

5. After NO_X CEMS are installed, in accordance with 40 CFR 60.7(c) and (d), the permittee shall submit two copies of an excess emission report (EER) and monitoring system performance report in an acceptable format to the AQD Technical Programs Unit Supervisor and AQD District Supervisor, within 30 days following the end of each calendar quarter. The Monitoring System Performance Report shall follow the format of Figure 1 in 40 CFR 60.7(d). The NO_X Excess Emissions Report (EER) shall include the following information:

   a. A report of each exceedance above specified permit limits for NO_X. This includes the date, time, magnitude, cause and corrective actions of all occurrences during the reporting period.

   b. A report of all periods of CEMS downtime and corrective action.

   c. A report of the total operating time of each combustion turbine in FG-CTG-BP during the reporting period.

   d. A report of any periods that the CEMS exceeds the instrument range.

   e. If no exceedances or CEMS downtime occurred during the reporting period

   The permittee shall keep all monitoring data on file for a period of at least five years and make them available to the AQD upon request.[2] **(R 336.1213(3), 40 CFR 60.7(c) and (d), 40 CFR 60.334)**

6. Each calendar quarter, the permittee shall perform the Quality Assurance Procedures of the CEMS set forth in Part 75, Appendices A and B. Within 30 days following the end of each calendar quarter, the permittee shall submit the results to the AQD Technical Programs Unit and District Supervisor in a format acceptable to AQD. **(R 336.1213(3), 40 CFR Part 75, Appendices A and B)**

7. The permittee shall submit any performance test reports, including RATA reports, to the AQD Technical Programs Unit and AQD District Supervisor, in a format approved by the AQD. **(R 336.1213(3)(c), R 336.2001(5))**

See Appendices 3-2 P, 7-2 P and 8-2 P

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-CTG13-1-BP	228 x 108[2]	56[2]	**R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)**
2. SV-CTG12-1-BP	228 x 108[2]	56[2]	**R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)**
3. SV-CTG12-2-BP	228 x 108[2]	56[2]	**R 336.1225, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d)**

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all the provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and GG, as they apply to FG-CTG-BP.[2] **(40 CFR Part 60, Subparts A and GG)**

2. The permittee shall conduct a visual inspection of the silencer elements associated with each turbine once each quarter that the turbine is operated. The visual inspection will evaluate whether or not silencer material has been lost due to operation of the turbines. If there is evidence that silencer material has been lost, the permittee shall notify the District Office of the positive results and take immediate action to replace the silencer elements.

Records of the quarterly visual inspections shall be kept on file for a period of at least five years and made available to the AQD upon request. **(R 336.1213(3))**

3. The permittee shall comply with the acid rain permitting provisions of 40 CFR 72.1 to 72.94 as outlined in a complete Phase II Acid Rain Permit issued by the AQD. The Phase II Acid Rain Permit No. MI-AR-6034-2024 is hereby incorporated into this ROP as Appendix 9-1 BR. **(R 336.1902(1)(p))**

4. The permittee shall not allow the emission of an air pollutant to exceed the amount of any emission allowances that an affected source lawfully holds as of the allowance transfer deadline pursuant to R 336.1299(2)(d) and 40 CFR Part 72.9(c)(1)(i). **(R 336.1299(2)(a), 40 CFR 72.9(c)(1)(i))**

5. The permittee shall comply with the provisions of the Cross-State Air Pollution Rule SO_2 Group 1 Trading Program, as specified in 40 CFR Part 97, Subpart CCCCC, and identified in Appendix 10-2 P. **(40 CFR Part 97, Subpart CCCCC)**

6. The permittee shall comply with the provisions of the Cross-State Air Pollution Rule NO_X Annual Trading Program, as specified in 40 CFR Part 97, Subpart AAAAA, and identified in Appendix 10-2 P. **(40 CFR Part 97, Subpart AAAAA)**

7. The permittee shall comply with the provisions of the Cross State Air Pollution Rule NO_X Ozone Group 3 Trading Program, as specified in 40 CFR Part 97, Subpart GGGGG, and identified in Appendix 10-2 P. **(40 CFR Part 97 Subpart GGGGG)**

Footnotes:
[1] This condition is state only enforceable and was established pursuant to Rule 201(1)(b).
[2] This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

FG-CTG-DP
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Dean Peakers - Four (4) natural gas-fired simple cycle combustion turbine generator peaking units each nominally rated at 82.4 MW at ISO conditions. Peak mode means operation is above the nominally rated capacity of the turbine, as specified by equipment manufacturer, to supply additional output on a short-term basis with the potential for greater than normal wear on the turbine and increased frequency for periodic inspection and maintenance of the turbine. Base mode means operating at 100 percent load based on ambient temperature conditions. Combustion turbines are equipped with dry low-NOx burners.

Emission Units: EU-CTG12-2-DP, EU-CTG12-1-DP, EU-CTG11-1-DP, EU-CTG11-2-DP

POLLUTION CONTROL EQUIPMENT

Dry Low-NO_X Burners.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NO_X	9 ppm by volume at 15% oxygen & on a dry gas basis[2]	Base load, average of all operating hours in a calendar day, excluding startup, shutdown and malfunction	Each emission unit in FG-CTG-DP	SC V.1, and Appendix 7-2 P	**R 336.1205(1(a) & (b)** **40 CFR 52.21(j)**
2. NO_X	21 ppm by volume at 15% oxygen & on a dry gas basis[2]	Peak mode, average of all operating hours in a calendar day excluding startup, shutdown and malfunction	Each emission unit in FG-CTG-DP	SC V.1 and Appendix 7-2 P	**R 336.1205(1(a) & (b)** **40 CFR 52.21(j),)**
3. NO_X	60 ppm by volume at 15% oxygen & on a dry basis[2]	Hourly	Each emission unit in FG-CTG-DP	SC IV.2	**40 CFR 52.21 (c) & (d)** **40 CFR 52.21(j)**
4. NO_X	100 ppm by volume at 15% oxygen & dry gas basis[2]	Hourly, rolling arithmetic 4-unit operating hour average, determined at the end of each Unit Operating Hour, excluding startup, shutdown, and malfunction	Each emission unit in FG-CTG-DP	SC IV.2	**40 CFR 60.332(a)(1)** **40 CFR 60.8(c)**
5. NO_X	230 tons per year[2]	Based on a rolling 12-month period, as determined at the end of each month	FG-CTG-DP	SC IV.2, VI.4 and Appendix 7-2 P	**R 336.1205(1(a) & (b)** **40 CFR 52.21(j)**

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
6. CO	25 ppm by volume at 15% oxygen & on a dry gas basis[2]	Average of all operating hours in a calendar day excluding startup, shutdown and malfunction	Each emission unit in FG-CTG-DP	SC V.1 and Appendix 7-2 P	**R 336.1205(1((a) & (b) 40 CFR 52.21(j)**
7. CO	350 tons per year[2]	Based on a rolling 12-month period, as determined at the end of each month excluding startup, shutdown and malfunction	FG-CTG-DP	SC V.1 and Appendix 7-2 P	**R 336.1205(1((a) & (b) 40 CFR 52.21(j)**
8. PM10	9.0 pounds per hour[2]	Average of all operating hours in a calendar day excluding startup, shutdown and malfunction	Each emission unit in FG-CTG-DP	SC V.2 and Appendix 7-2 P	**R 336.1205(1((a) & (b) 40 CFR 52.21(j)**
9. PM10	46.4 tons per year[2]	Based on a rolling 12-month period, as determined at the end of each month excluding startup, shutdown and malfunction	FG-CTG-DP	SC V.2 and Appendix 7-2 P	**R 336.1205(1((a) & (b) 40 CFR 52.21(j)**
10. HCOH	4.5 tons per year[2]	Based on a rolling 12-month period, as determined at the end of each month excluding startup, shutdown and malfunction	FG-CTG-DP	SC V.3	**R 336.1205(2)**
11. Opacity	10%, except for uncombined water vapor[2]	6-minute average excluding startup, shutdown and malfunction	Each emission unit in FG-CTG-DP	SC V.4	**R 336.1301 40 CFR 52.21(j)**
12. Sulfur in Natural Gas	0.8 grain per 100 standard cu. ft.[2]	As-fired excluding startup, shutdown and malfunction	FG-CTG-DP	SC III.1	**R 336.1225 R 336.1702(a) 40 CFR 52.21(j) 40 CFR 60.333(b)**

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Natural Gas	12,400 MMCF[2]	Based on a rolling 12-month period, as determined at the end of each month	FG-CTG-DP	SC VI.9	**R 336.1205(1(a) & (b) 40 CFR 52.21(j)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall only burn pipeline quality natural gas in each turbine.[2] **(R 336.1225, R 336.1702(a), 40 CFR 52.21, 40 CFR 60.333(b))**

2. The permittee shall not operate the turbines in FG-CTG-DP at base load for more than a total of 12,400 hours per 12-month rolling time period as determined at the end of each calendar month.[2] **(R 336.1205(1)(a) & (b), 40 CFR 52.21(j))**

3. The permittee shall not operate the turbines in FG-CTG-DP at peak load for more than a total of 800 hours per 12-month rolling time period as determined at the end of each calendar month.[2] **(R 336.1205(1)(a) & (b), 40 CFR 52.21(j))**

4. The permittee must minimize the NO_X, CO and PM10 emission rates during startup and shutdown in accordance with the turbine manufacturer recommendations.[2] **(R 336.1912, 40 CFR 52.21(j))**

5. The total hours for startup and shutdown for FG-CTG-DP shall not exceed 500 hours per turbine per 12-month rolling time period as determined at the end of each calendar month. Startup is defined as the period of time from initiation of combustion firing until the unit reaches steady state operation (i.e., when premix operation is achieved). Shutdown is defined as that period of time from the initial lowering of the turbine output, with the intent to shut down, until the point at which the combustion process has stopped.[2] **(40 CFR 52.21(j))**

6. The permittee shall not operate FG-CTG-DP unless all provisions of the Federal Prevention of Significant Deterioration regulations, 40 CFR 52.21, are met.[2] **(40 CFR 52.21)**

7. The permittee shall maintain and implement the EGLE approved plan describing how emissions are minimized during startup(s), shutdown(s) and malfunction(s). The plan shall incorporate procedures recommended by the equipment manufacturer as well as incorporating standard industry practices. Alternative plans or modifications to the approved plan must be approved by the District Supervisor. Unless notified by the District Supervisor within 30 business days after plan submittal, the plan shall be deemed approved.[2] **(R 336.1911, R 336.1912, 40 CFR 52.21)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each turbine with a dry low-NO_X combustor.[2] **(R 336.1910, 40 CFR 52.21(j))**

2. The permittee shall install, calibrate, maintain, and operate devices or equipment to monitor and record the NO_X emissions and oxygen (O2) or (CO_2) content of the exhaust gas from each turbine in FG-CTG-DP on a continuous basis, and to meet the timelines and reporting requirements as described in Appendix 3-2 P. The Continuous Emission Monitoring System (CEMS) shall be installed, calibrated, maintained, and operated in accordance with the procedures set forth in 40 CFR 60.13 and PS 2 for NO_X and PS 3 for O2 or CO_2 of Appendix B to 40 CFR Part 60.[2] **(R 336.1205(1)(a) & (b), R 336.2150(1)(b), (d), and (e), 40 CFR 52.21(c) & (d), 40 CFR 60.13, 40 CFR 75.12(d)(2), 40 CFR 72.12(c), 40 CFR Part 75, Appendices B & F)**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall conduct NO_X and CO emission rate testing, at owner's expense, for each turbine at least once every 20 calendar quarters. NO_X and CO emissions testing will be conducted at two operating load points, one at maximum load and one other mid load. Testing shall be performed using approved EPA Test Methods listed in 40 CFR Part 60, Appendix A. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee shall notify the AQD no less than 7 days prior to the anticipated test date. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.[2] **(R 336.1205(1)(a) & (b), R 336.1902, R 336.2001, R 336.2803, R 336.2804, 40 CFR 52.21(c) & (d), 40 CFR 52.21(j), 40 CFR 60.8, 40 CFR 60.335, 40 CFR Part 75, Appendix E)**

2. The permittee shall test PM10 once every five years. Testing must be done for each turbine at 100% load conditions.[2] **(R 336.2001, R 336.2003, R 336.2004~~)~~**

3. Emission factors developed from previous stack tests at 65%, 100% and peak load conditions will be used along with hourly fuel usage data to demonstrate compliance with annual HCOH limits.[2] **(R 336.2001, R 336.2003, R 336.2004)**

4. The permittee shall conduct federal Reference Method 9 visible emissions reading for each turbine at least once per 825 hours of operation.[2] **(R 336.1301, 40 CFR 52.21)**

5. The permittee shall verify PM10 emission rates from FG-CTG-DP by testing at owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in:

Pollutant	Test Method Reference
PM10	40 CFR Part 51, Appendix M

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**

6. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor not less than 30 days before testing of the time and place performance tests will be conducted. **(R 336.1213(3))**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. For each turbine, the permittee shall keep a record of federal Reference Method 9 visible emissions reading conducted at least once per 825 hours of operation.[2] **(R 336.1301, 40 CFR 52.21)**

2. The permittee shall keep records for each turbine operating in base mode, of the calendar day NO_X emission calculations (ppmv NO_X). All such records and calculations (stack test results) are for the purpose of compliance demonstration and shall be kept on file for a period of at least five years and made available to the AQD upon request.[2] See Appendix 7-2 P. **(R 336.1205(1)(a) & (b), 40 CFR 52.21(j), 40 CFR Part 60, Subpart GG)**

3. The permittee shall keep records for each turbine operating in peak mode, of the calendar day NO_X emission calculations (ppmv NO_X). All such records and calculations (stack test results) are for the purpose of compliance demonstration and shall be kept on file for a period of at least five years and made available to the AQD upon request.[2] See Appendix 7-2 P. **(R 336.1205(1)(a) & (b), 40 CFR 52.21(j), 40 CFR Part 60, Subpart GG)**

4. For each turbine, the permittee shall calculate and keep monthly records of the monthly and 12-month rolling total hours of operation at base and peak loads.[2] **(R 336.1205(1)(a) & (b), 40 CFR 52.21(j))**

5. For each turbine, the permittee shall keep records of the monthly and 12-month NO_X emission calculations.[2] See Appendix 7-2 P. **(R 336.1205(1)(a) & (b), 40 CFR 52.21, 40 CFR Part 60, Subpart GG)**

6. For each turbine, the permittee shall keep records of the calendar day average, monthly and 12-month CO emission calculations.[2] See Appendix 7-2 P. **(R 336.1205(1)(a) & (b), 40 CFR 52.21)**

7. For each turbine, the permittee shall keep records of the monthly and 12-month PM10 emission calculations.[2] **(R 336.1205(1)(a) & (b), 40 CFR 52.21)**

8. For each turbine, the permittee shall keep records of the monthly and 12-month HCOH emission calculations.[2] **(R 336.1205(2))**

9. For each turbine, the permittee shall continuously monitor and record the hourly natural gas usage in a manner and with instrumentation acceptable to the AQD District Supervisor.[2] **(R 336.1205(1)(a) & (b), 40 CFR 52.21)**

10. For each turbine, the permittee shall keep records of hours of startup and shutdown.[2] **(40 CFR 52.21(j))**

11. The permittee shall use one of the following sources of information to demonstrate the gaseous fuel burned in FG-CTG-DP is natural gas, as defined in 40 CFR 60.331(u): **(40 CFR 60.334(h)(3))**

    a. The gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less. **(40 CFR 60.334(h)(3)(i))**

    b. Representative fuel sampling data which show that the sulfur content of the gaseous fuel does not exceed 20 grains/100 scf. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of Appendix D to 40 CFR Part 75 is required. **(40 CFR 60.334(h)(3)(ii))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

4. The permittee shall report NO_X and either O_2 or CO_2 emissions in accordance with 40 CFR Part 75 within 30 days following the end of each calendar quarter.[2] **(40 CFR 75.64)**

5. In accordance with 40 CFR 60.7(c) & (d), the permittee shall submit two copies of an excess emission report (EER) and monitoring system performance report in an acceptable format to the AQD District Supervisor and the TPU Supervisor within 30 days following the end of each calendar quarter. The monitoring system performance report shall follow the format of Figure 1 in 40 CFR 60.7(d). The NO_X excess emissions (EER) shall include the following information:[2] **(40 CFR 60.7(c) & (d))**

    a. A report of each exceedance above specified permit limits for NO_X. This includes the date, time, magnitude, cause and corrective actions of all occurrences during the reporting period.

    b. A report of all periods of CEMS downtime and corrective action.

    c. A report of the total operating time of each combustion turbine in FG-CTG-DP during the reporting period.

    d. A report of any periods that the CEMS exceeds the instrument range.

    e. If no exceedances or CEMS downtime occurred during the reporting period, the permittee shall report that fact.

See Appendix 3-2 P

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV- CTG12-2-DP	108 x 228[2]	56[2]	**R 336.1225, 40 CFR 52.21(c) & (d)**
2. SV- CTG12-1-DP	108 x 228[2]	56[2]	**R 336.1225, 40 CFR 52.21(c) & (d)**
3. SV- CTG11-1-DP	108 x 228[2]	56[2]	**R 336.1225, 40 CFR 52.21(c) & (d)**
4. SV- CTG11-2-DP	108 x 228[2]	56[2]	**R 336.1225, 40 CFR 52.21(c) & (d)**

IX. OTHER REQUIREMENT(S)

1. The permittee shall conduct a visual inspection of the silencer elements associated with each turbine once each quarter that the turbine is operated. The visual inspection will evaluate whether or not silencer material has been lost due to operation of the turbines. If there is evidence that silencer material has been lost, the permittee shall notify the District Office of the positive results and take immediate action to replace the silencer elements. Records of the quarterly visual inspections shall be kept on file for a period of at least five years and made available to the AQD upon request.[2] **(R 336.1901)**

2. The permittee shall comply with the acid rain permitting provisions of 40 CFR 72.1 to 72.94 as outlined in a complete Phase II Acid Rain Permit issued by the AQD. The Phase II Acid Rain Permit No. MI-AR-55718-2024 is hereby incorporated into this ROP as Appendix 9-2 P. **(R 336.1902(1)(p))**

3. The permittee shall not allow the emission of an air pollutant to exceed the amount of any emission allowances that an affected source lawfully holds as of the allowance transfer deadline pursuant to R 336.1902(1)(p) and 40 CFR 72.9(c)(1)(i). **(R 336.1213(10))**

4. The permittee shall comply with the provisions of the Cross-State Air Pollution Rule SO_2 Group 1 Trading Program, as specified in 40 CFR Part 97, Subpart CCCCC, and identified in Appendix 10-2 P. **(40 CFR Part 97, Subpart CCCCC)**

5. The permittee shall comply with the provisions of the Cross-State Air Pollution Rule NO_X Annual Trading Program, as specified in 40 CFR Part 97, Subpart AAAAA, and identified in Appendix 10-2 P. **(40 CFR Part 97, Subpart AAAAA)**

6. The permittee shall comply with the provisions of the Cross State Air Pollution Rule NO_X Ozone Group 3 Trading Program, as specified in 40 CFR Part 97 Subpart GGGGG, and identified in Appendix 10-2 P. **(40 CFR Part 97 Subpart GGGGG)**

7. The permittee shall comply with all the provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and GG, as they apply to FG-CTG-DP.[2] **(40 CFR Part 60, Subparts A and GG)**

Footnotes:
[1] This condition is state only enforceable and was established pursuant to Rule 201(1)(b).
[2] This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

E. NON-APPLICABLE REQUIREMENTS

At the time of the ROP issuance, the AQD has determined that no non-applicable requirements have been identified for incorporation into the permit shield provision set forth in the General Conditions in Part A pursuant to Rule 213(6)(a)(ii).

APPENDICES

Appendix 1-2 P. Acronyms and Abbreviations

Common Acronyms		Pollutant / Measurement Abbreviations	
AQD	Air Quality Division	acfm	Actual cubic feet per minute
BACT	Best Available Control Technology	BTU	British Thermal Unit
CAA	Clean Air Act	°C	Degrees Celsius
CAM	Compliance Assurance Monitoring	CO	Carbon Monoxide
CEM	Continuous Emission Monitoring	CO_2e	Carbon Dioxide Equivalent
CEMS	Continuous Emission Monitoring System	dscf	Dry standard cubic foot
CFR	Code of Federal Regulations	dscm	Dry standard cubic meter
COM	Continuous Opacity Monitoring	°F	Degrees Fahrenheit
Department/ department	Michigan Department of Environment, Great Lakes, and Energy	gr	Grains
		HAP	Hazardous Air Pollutant
EGLE	Michigan Department of Environment, Great Lakes, and Energy	Hg	Mercury
		hr	Hour
EU	Emission Unit	HP	Horsepower
FG	Flexible Group	H_2S	Hydrogen Sulfide
GACS	Gallons of Applied Coating Solids	kW	Kilowatt
GC	General Condition	lb	Pound
GHGs	Greenhouse Gases	m	Meter
HVLP	High Volume Low Pressure*	mg	Milligram
ID	Identification	mm	Millimeter
IRSL	Initial Risk Screening Level	MM	Million
ITSL	Initial Threshold Screening Level	MW	Megawatts
LAER	Lowest Achievable Emission Rate	NMOC	Non-methane Organic Compounds
MACT	Maximum Achievable Control Technology	NO_x	Oxides of Nitrogen
MAERS	Michigan Air Emissions Reporting System	ng	Nanogram
MAP	Malfunction Abatement Plan	PM	Particulate Matter
MSDS	Material Safety Data Sheet	PM10	Particulate Matter equal to or less than 10 microns in diameter
NA	Not Applicable		
NAAQS	National Ambient Air Quality Standards	PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter
NESHAP	National Emission Standard for Hazardous Air Pollutants	pph	Pounds per hour
		ppm	Parts per million
NSPS	New Source Performance Standards	ppmv	Parts per million by volume
NSR	New Source Review	ppmw	Parts per million by weight
PS	Performance Specification	%	Percent
PSD	Prevention of Significant Deterioration	psia	Pounds per square inch absolute
PTE	Permanent Total Enclosure	psig	Pounds per square inch gauge
PTI	Permit to Install	scf	Standard cubic feet
RACT	Reasonable Available Control Technology	sec	Seconds
ROP	Renewable Operating Permit	SO_2	Sulfur Dioxide
SC	Special Condition	TAC	Toxic Air Contaminant
SCR	Selective Catalytic Reduction	Temp	Temperature
SDS	Safety Data Sheet	THC	Total Hydrocarbons
SNCR	Selective Non-Catalytic Reduction	tpy	Tons per year
SRN	State Registration Number	µg	Microgram
TEQ	Toxicity Equivalence Quotient	µm	Micrometer or Micron
USEPA/EPA	United States Environmental Protection Agency	VOC	Volatile Organic Compounds
		yr	Year
VE	Visible Emissions		

*For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 psig.

Appendix 2-2 P. Schedule of Compliance

The permittee certified in the ROP application that this stationary source is in compliance with all applicable requirements and the permittee shall continue to comply with all terms and conditions of this ROP. A Schedule of Compliance is not required. **(R 336.1213(4)(a), R 336.1119(a)(ii))**

Appendix 3-2 P. Monitoring Requirements

a. FG-CTG-BP:

The following monitoring procedures, methods, or specifications are the details to the monitoring requirements identified and referenced in FG-CTG-BP.

Continuous Emission Monitoring System

The CEMS performance specifications defined in 40 CFR Part 75, Appendix B are adopted.

Methods of measurement, frequency of measurement and recordkeeping methods for CEMS required under 40 CFR 75 are outlined in the most recent version of the Acid Rain Program – Belle River Peakers Monitoring Plan.

The data reduction procedures defined in 40 CFR 75.12(c) will calculate hourly, quarterly, and annual NO_X emission rates (in lb/MMBTU) by combining the NO_X concentration (in ppm), diluent concentration (in percent O_2 or CO_2), and percent moisture (if applicable) measurements according to the procedures in Appendix F of 40 CFR Part 75. Additionally, the CEMS shall ensure that the data obtained is directly correlated with the emission limits established in FG-CTG-BP, SC I.1.

The data conversion procedures defined in Appendix F in 40 CFR Part 75 will calculate hourly heat input, MMBTU.

b. FG-CTG-DP:

The following monitoring procedures, methods, or specifications are the details to the monitoring requirements identified and referenced in FG-CTG-DP.

Continuous Emission Monitoring System

The CEMS performance specifications defined in 40 CFR Part 75, Appendix B are adopted.

Methods of measurement, frequency of measurement and recordkeeping methods for CEMS required under 40 CFR 75 are outlined in the most recent version of the Acid Rain Program –Dean Peakers Monitoring Plan.

The data reduction procedures defined in 40 CFR 75.12(c) will be used calculate hourly, quarterly, and annual NO_X emission rates (in lb/MMBTU) by combining the NO_X concentration (in ppm), diluent concentration (in percent O_2 or CO_2), and percent moisture (if applicable) measurements according to the procedures in Appendix F of 40 CFR Part 75. Additionally, the CEMS shall ensure that the data obtained is directly correlated with the emission limits established in FG-CTG-DP, SC I.1 and SC I.2.

The data conversion procedures defined in Appendix F in 40 CFR Part 75 will calculate the hourly heat input, MMBTU.

Appendix 4-2 P. Recordkeeping

Specific recordkeeping requirement formats and procedures are detailed in Part A or the appropriate Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Therefore, this appendix is not applicable.

Appendix 5-2 P. Testing Procedures

Specific testing requirement plans, procedures, and averaging times are detailed in the appropriate Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Therefore, this appendix is not applicable.

Appendix 6-2 P. Permits to Install

The following table lists any PTIs issued or ROP revision applications received since the effective date of the previously issued ROP No. MI-ROP-B2796-2015. Those ROP revision applications that are being issued concurrently with this ROP renewal are identified by an asterisk (*). Those revision applications not listed with an asterisk were processed prior to this renewal.

Source-Wide PTI No MI-PTI-B2796-2015c is being reissued as Source-Wide PTI No. MI-PTI-B2796-2024.

Permit to Install Number	ROP Revision Application Number/Issuance Date	Description of Change	Corresponding Emission Unit(s) or Flexible Group(s)
116-01B	202100126*	Incorporate PTI No. 116-01B into the ROP. Remove obsolete PEMS conditions & streamline new conditions of CEMS for NO_X on each EU in FG-CTG-DP (EU-CTG12-2-DP, EU-CTG12-1-DP, EU-CTG11-1-DP and EU-CTG11-2-DP)	EU-CTG12-2-DP EU-CTG12-1-DP EU-CTG-11-1-DP EU-CTG11-2-DP FG-CTG-DP
331-98C	202000159*	Incorporate PTI No. 331-98C which is to modify PTI Conditions from the change of NO_X PEMS to NO_X CEMS for FG-CTG-BP of Section 2 of the 2021 ROP renewal.	EU-CTG12-1-BP EU-CTG12-2-BP EU-CTG13-1-BP

Appendix 7-2 P. Emission Calculations

a. Belle River Peakers

The permittee shall use the following calculations in conjunction with monitoring, testing or recordkeeping data to determine compliance with the applicable requirements referenced in FG-CTG-BP:

Natural gas usage is monitored continuously but recorded once per hour and calculated and recorded on a monthly basis.

The NO_X and CO calendar day ppmv limits are assured by the latest stack testing results. The worst-case concentration data (in ppmv) from the tested operating loads are compared to permit limits.

From stack testing, emission factors for CO and PM10 are developed in lbs. pollutant/million cubic feet of natural gas, for the corresponding loads specified in FG-CTG-BP SC V.1 (CO) and V.2 (PM10). Emission factors for each pollutant are calculated using the average emissions derived from the last representative stack test on a pollutant-specific basis. The emission factors, along with the fuel monitoring requirement, shall be used to calculate and record emissions for each hour to ensure compliance with PM10's calendar day average, and CO's and PM10's rolling 12-month period emission limits.

Continuous Emission Monitoring System

Once CEMS are installed, compliance with the NO_X emission limits based on hourly and 12-month rolling time periods will be determined using the hourly NO_X emission rate (lb/MMBTU) and hourly heat rate (MMBTU/hr) values, described in Appendix 3-2 P and 40 CFR Part 75, Appendix F indicated below. The NO_X emission limit for steady

state operations which are based on the average of all operating hours in a calendar day shall continue to be based upon testing results.

Use the following procedures to convert continuous emission monitoring system measurements of NO_X concentration (ppm) and diluent concentration (percentage) into NO_X emission rates (in lb/MMBTU). Perform measurements of NO_X and diluent (O_2 or CO_2) concentrations on the same moisture (wet or dry) basis.

When the NO_X continuous emission monitoring system uses O_2 as the diluent, and measurements are performed on a dry basis, use the following conversion procedure:

$$E = K\ C_h\ F\ \frac{20.9}{20.9 - \%O_2}$$

When the NO_X continuous emission monitoring system uses CO_2 as the diluent, use the following conversion procedure:

where:

$$E = K\ C_h\ F_c\ \frac{100}{\%CO_2}$$

K = 1.194 × 10−7 (lb/dscf)/ppm NO_X.

E = Pollutant emissions during unit operation, lb/MMBTU.

C_h = Hourly average pollutant concentration during unit operation, ppm.

F, F_c = a factor representing a ratio of the volume of dry flue gases generated to the caloric value of the fuel combusted (F), and a factor representing a ratio of the volume of CO_2 generated to the calorific value of the fuel combusted (F_c), respectively. Table 1 lists the values of F and F_c for different fuels.

$\%O_2$, $\%CO_2$= Oxygen or carbon dioxide volume during unit operation (expressed as percent O_2 or CO_2).

b. Dean Peakers

The permittee shall use the following calculations in conjunction with monitoring, testing or recordkeeping data to determine compliance with the applicable requirements referenced in FG-CTG-DP:

Natural gas usage is monitored continuously but recorded once per hour and tracked on a monthly basis.

The CO and PM_{10} calendar day ppmv limits are assured by the latest stack testing results. The worst-case concentration data (in ppmv) from the tested operating loads are compared to permit limits.

From stack testing, emission factors for CO and PM10 are developed in lbs pollutant/million cubic feet of natural gas, for the corresponding loads specified in FG-CTG-DP SC V.1 (CO) and V.2 (PM10). Emission factors for each pollutant are calculated at each tested load point from the last representative stack test. Based upon the average of the three one-hour test runs for each test point, the higher EF value between the tested load points for each pollutant shall be multiplied by each hour's monitored fuel usage to calculate and ensure compliance with CO's and PM10's rolling 12-month period emission limits.

Continuous Emission Monitoring System

Once CEMS are installed, compliance with the NO_X emission limits based on hourly and 12-month rolling time periods will be determined using the hourly NO_X emission rate (lb/MMBTU) and hourly heat rate (MMBTU/hr) values, described in Appendix 3-2-P and 40 CFR Part 75, Appendix F indicated below. The NO_X emission limit for steady state operations which are based on the average of all operating hours in a calendar day shall continue to be based upon stack testing results.

Use the following procedures to convert continuous emission monitoring system measurements of NO_X concentration (ppm) and diluent concentration (percentage) into NO_X emission rates (in lb/MMBTU). Perform measurements of NO_X and diluent (O_2 or CO_2) concentrations on the same moisture (wet or dry) basis. When the NO_X continuous emission monitoring system uses O_2 as the diluent, and measurements are performed on a dry basis, use the following conversion procedure:

$$E = K\ C_h\ F\ \frac{20.9}{20.9 - \%O_2}$$

When the NO_X continuous emission monitoring system uses CO_2 as the diluent, use the following conversion procedure:

$$E = K\ C_h\ F_c\ \frac{100}{\%CO_2}$$

where:

K = 1.194 × 10−7 (lb/dscf)/ppm NO_X.

E = Pollutant emissions during unit operation, lb/MMBTU.

C_h = Hourly average pollutant concentration during unit operation, ppm.

F, F_c = a factor representing a ratio of the volume of dry flue gases generated to the caloric value of the fuel combusted (F), and a factor representing a ratio of the volume of CO_2 generated to the calorific value of the fuel combusted (F_c), respectively. Table 1 lists the values of F and F_c for different fuels.

$\%O_2$, $\%CO_2$= Oxygen or carbon dioxide volume during unit operation (expressed as percent O_2 or CO_2).

Appendix 8-2 P. Reporting

A. Annual, Semiannual, and Deviation Certification Reporting

The permittee shall use EGLE, AQD, Report Certification form (EQP 5736) and EGLE, AQD, Deviation Report form (EQP 5737) for the annual, semiannual and deviation certification reporting referenced in the Reporting Section of the Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Alternative formats must meet the provisions of Rule 213(4)(c) and Rule 213(3)(c)(i), respectively, and be approved by the AQD District Supervisor.

B. Other Reporting

Specific reporting requirement formats and procedures are detailed in Part A or the appropriate Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Therefore, Part B of this appendix is not applicable.

Appendix 9-2 P. Phase Two Acid Rain Permit

a. Belle River Peakers

The Acid Rain Permit No. MI-AR-6034-2024 for FG-CTG-BP at Belle River Peakers is included in Section 1 Belle River Power Plant, Appendix 9-1 BR,

b. Dean Peakers

PHASE II ACID RAIN PERMIT
Permit No. MI-AR-55718-2024

Permittee	DTE Electric Company – Dean Peakers
Address	4901 Pointe Dr., East China Township, MI
SRN	B2796
Plant Code	55718
Issue Date	June 1, 2024
Effective	Issuance date of this facility's Renewable Operating Permit at the facility in accordance with 40 CFR 72.73.
Expiration	This permit shall expire when the facility's Renewable Operating Permit expires, in accordance with 40 CFR 72.73.
ROP No.	MI-ROP-B2796-2024

The Acid Rain Permit Contents

1. A statement of basis prepared by the Air Quality Division (AQD) containing:

   References to statutory and regulatory authorities, and with comments, notes, and justification that apply to the source in general;

2. Terms and conditions including:

   A table of sulfur dioxide allowances to be allocated during the term of the permit, if applicable, authorized by this permit during Phase II. Unless they are subject to Sections 405(g)(2) or (3) of the federal Clean Air Act, new units are not allocated allowances in 40 CFR Part 73 and must obtain allowances by other means (Section 403(e) of the federal Clean Air Act);

   Comments, notes and justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements; and,

   Any applicable nitrogen oxides compliance plan. Unless they are coal fired utility units regulated pursuant to Sections 404, 405, or 409 of the federal Clean Air Act, new units are not subject to the acid rain nitrogen oxides requirements (40 CFR 76.1(a)).

3. The permit application that this source submitted, as corrected by the AQD. The owners and operators of the source must comply with the standard requirements and special provisions set forth in the application.

Section 2 – Peakers

Statement of Basis

Statutory and Regulatory Authorities.

In accordance with the Natural Resources and Environmental Protection Act, 1994 PA 451 and Titles IV and V of the federal Clean Air Act, the Michigan Department of Environment, Great Lakes, and Energy, Air Quality Division (AQD), issues this permit pursuant to the provisions of R 336.1210 to R 336.1218, and R 336.1902(1)(p).

For further information contact:

Mr. Brian Carley
Environmental Quality Specialist
Michigan Department of Environment, Great Lakes, and Energy
Air Quality Division, Jackson District Office
State Office Building, 4th Floor
301 East Louis B. Glick Highway
Jackson, Michigan 49201-1556

Telephone: 517-416-4631
Facsimile: 517-780-7855

There are no comments, notes and/or justification that apply to the source in general for this section.

Section 2 – Peakers

Terms and Conditions:

Phase II Sulfur Dioxide Allowance Allocation and Nitrogen Oxides Requirements for each affected unit.

		2024	2025	2026	2027	2028
Unit CTG 11-1	SO_2 allowances	This affected unit shall hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and comply with the applicable Acid Rain emissions limitation for sulfur dioxide in accordance with 40 CFR 72.9 (c).				

		2024	2025	2026	2027	2028
Unit CTG 11-2	SO_2 allowances	This affected unit shall hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and comply with the applicable Acid Rain emissions limitation for sulfur dioxide in accordance with 40 CFR 72.9 (c).				

		2024	2025	2026	2027	2028
Unit CTG 12-1	SO_2 allowances	This affected unit shall hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and comply with the applicable Acid Rain emissions limitation for sulfur dioxide in accordance with 40 CFR 72.9 (c).				

		2024	2025	2026	2027	2028
Unit CTG 12-2	SO_2 allowances	This affected unit shall hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and comply with the applicable Acid Rain emissions limitation for sulfur dioxide in accordance with 40 CFR 72.9 (c).				

Comments, notes and justifications regarding permit decisions, and changes made to the permit application forms during the review process: None.

Permit Application: (attached)

Acid Rain Permit Application submitted December 3, 2019

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Approval expires 12/31/2021

Acid Rain Permit Application

For more information, see instructions and 40 CFR 72.30 and 72.31.

This submission is: ☐ new ☐ revised ☑ for ARP permit renewal

STEP 1

Identify the facility name, State, and plant (ORIS) code.

DTE Electric Company-Dean Peakers	MI	55718
Facility (Source) Name	State	Plant Code

STEP 2

Enter the unit ID# for every affected unit at the affected source in column "a."

a	b
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)
CTG 12-2 (formerly 1)	Yes
CTG 12-1 (formerly 2)	Yes
CTG 11-1 (formerly 3)	Yes
CTG 11-2 (formerly 4)	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes

EPA Form 7610-16 (Revised 8-2019)

DTE Electric Company-Dean Peakers
Facility (Source) Name (from STEP 1)

STEP 3

Read the standard requirements.

Permit Requirements

(1) The designated representative of each affected source and each affected unit at the source shall:
  (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
  (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;
(2) The owners and operators of each affected source and each affected unit at the source shall:
  (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
  (ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.
(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

(1) The owners and operators of each source and each affected unit at the source shall:
  (i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and
  (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
  (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
  (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).
(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

EPA Form 7610-16 (Revised 8-2019)

DTE Electric Company-Dean Peakers
Facility (Source) Name (from STEP 1)

STEP 3, Cont'd.

Excess Emissions Requirements

(1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected source that has excess emissions in any calendar year shall:
   (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
   (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
   (i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
   (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
   (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
   (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

EPA Form 7610-16 (Revised 8-2019)

DTE Electric Company-Dean Peakers
Facility (Source) Name (from STEP 1)

STEP 3, Cont'd.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;

(2) Limiting the number of allowances a source can hold; provided, that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act;

(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4

Read the certification statement, sign, and date.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name: Benjamin Felton, Senior Vice President, Fossil Generation

Signature: 

Date: 11/12/19

EPA Form 7610-16 (Revised 8-2019)

Appendix 10-2 P: Cross State Air Pollution Rule (CSAPR) Trading Program Title V Requirements

Description of CSAPR Monitoring Provisions

The CSAPR subject units, and the unit-specific monitoring provisions, at this source are identified in the following tables. These units are subject to the requirements for the CSAPR NO_X Annual Trading Program, CSAPR NO_X Ozone Season Group 3 Trading Program, and CSAPR SO_2 Group 1 Trading Program, which are included below as Sections I, II, and III, respectively.

Each unit will use one of the following as the monitoring methodology for each parameter as provided below and shall comply with the general monitoring, recordkeeping, reporting and other requirements in conditions 1 through 5 below and in paragraph (b) of Sections I, II, and III:

- Continuous emission monitoring system or systems (CEMS) requirements pursuant to 40 CFR Part 75, Subpart B (for SO_2 monitoring) or 40 CFR Part 75, Subpart H (for NO_X monitoring)
- Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D
- Excepted monitoring system requirements for gas- and oil-fired peaking units pursuant to 40 CFR Part 75, Appendix E
- Low Mass Emissions excepted monitoring (LME) requirements for gas- and oil-fired units pursuant to 40 CFR 75.19
- EPA-approved alternative monitoring system requirements pursuant to 40 CFR Part 75, Subpart E

Unit ID: Belle River Peakers CTG 12-1	
Parameter	Monitoring Methodology
SO_2	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D
NO_X	Excepted monitoring system requirements for gas- and oil-fired peaking units pursuant to 40 CFR Part 75, Appendix E
Heat Input	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D

Unit ID: Belle River Peakers CTG 12-2	
Parameter	Monitoring Methodology
SO_2	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D
NO_X	Excepted monitoring system requirements for gas- and oil-fired peaking units pursuant to 40 CFR Part 75, Appendix E
Heat Input	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D

Unit ID: Belle River Peakers CTG 13-1	
Parameter	Monitoring Methodology
SO_2	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D
NO_X	Excepted monitoring system requirements for gas- and oil-fired peaking units pursuant to 40 CFR Part 75, Appendix E
Heat Input	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D

Unit ID: Dean Peakers CTG 11-1 (formerly 3)	
Parameter	Monitoring Methodology
SO_2	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D
NO_X	Excepted monitoring system requirements for gas- and oil-fired peaking units pursuant to 40 CFR Part 75, Appendix E

Heat Input	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D

Unit ID: Dean Peakers CTG 11-2 (formerly 4)	
Parameter	Monitoring Methodology
SO_2	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D
NO_X	Excepted monitoring system requirements for gas- and oil-fired peaking units pursuant to 40 CFR Part 75, Appendix E
Heat Input	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D

Unit ID: Dean Peakers CTG 12-1 (formerly 2)	
Parameter	Monitoring Methodology
SO_2	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D
NO_X	Excepted monitoring system requirements for gas- and oil-fired peaking units pursuant to 40 CFR Part 75, Appendix E
Heat Input	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D

Unit ID: Dean Peakers CTG 11-2 (formerly 1)	
Parameter	Monitoring Methodology
SO_2	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D
NO_X	Excepted monitoring system requirements for gas- and oil-fired peaking units pursuant to 40 CFR Part 75, Appendix E
Heat Input	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D

1. The above description of the monitoring used by a unit does not change, create an exemption from, or otherwise affect the monitoring, recordkeeping, and reporting requirements applicable to the unit under 40 CFR 97.430 through 97.435 (CSAPR NO_X Annual Trading Program), 97.1030 through 97.1035 (CSAPR NO_X Ozone Season Group 3 Trading Program), and 97.630 through 97.635 (CSAPR SO_2 Group 1 Trading Program). The monitoring, recordkeeping and reporting requirements applicable to each unit are included below in the standard conditions for the applicable CSAPR trading programs.

2. Owners and operators must submit to the Administrator a monitoring plan for each unit in accordance with 40 CFR 75.53, 75.62 and 75.73, as applicable. The monitoring plan for each unit is available at the EPA's website at https://www.epa.gov/airmarkets/monitoring-plans-part-75-sources.

3. Owners and operators that want to use an alternative monitoring system must submit to the Administrator a petition requesting approval of the alternative monitoring system in accordance with 40 CFR Part 75, Subpart E and 40 CFR 75.66 and 97.435 (CSAPR NO_X Annual Trading Program), 97.1035 (CSAPR NO_X Ozone Season Group 3 Trading Program), and/or 97.635 (CSAPR SO_2 Group 1 Trading Program). The Administrator's response approving or disapproving any petition for an alternative monitoring system is available on the EPA's website at https://www.epa.gov/airmarkets/part-75-petition-responses.

4. Owners and operators that want to use an alternative to any monitoring, recordkeeping, or reporting requirement under 40 CFR 97.430 through 97.434 (CSAPR NO_X Annual Trading Program), 97.1030 through 97.1034 (CSAPR NO_X Ozone Season Group 3 Trading Program), and/or 97.630 through 97.634 (CSAPR SO_2 Group 1 Trading Program) must submit to the Administrator a petition requesting approval of the alternative in accordance with 40 CFR 75.66 and 97.435 (CSAPR NO_X Annual Trading Program), 97.1035 (CSAPR NO_X Ozone Season Group 3 Trading Program), and/or 97.635 (CSAPR SO_2 Group 1 Trading Program). The Administrator's response approving or disapproving any petition for an alternative to a monitoring, recordkeeping, or reporting requirement is available on the EPA's website at https://www.epa.gov/airmarkets/part-75-petition-responses.

5. The descriptions of monitoring applicable to the unit included above meet the requirement of 40 CFR 97.430 through 97.434 (CSAPR NO_X Annual Trading Program), 97.1030 through 97.1034 (CSAPR NO_X Ozone Season Group 3 Trading Program), and 97.630 through 97.634 (CSAPR SO_2 Group 1 Trading Program), and therefore minor permit modification procedures, in accordance with 40 CFR 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B), may be used to add or change this unit's monitoring system description.

SECTION I: CSAPR NO_X Annual Trading Program requirements (40 CFR 97.406)

(a) Designated representative requirements.
The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.413 through 97.418.

(b) Emissions monitoring, reporting, and recordkeeping requirements.
(1) The owners and operators, and the designated representative, of each CSAPR NO_X Annual source and each CSAPR NO_X Annual unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.430 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.431 (initial monitoring system certification and recertification procedures), 97.432 (monitoring system out-of-control periods), 97.433 (notifications concerning monitoring), 97.434 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.435 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
(2) The emissions data determined in accordance with 40 CFR 97.430 through 97.435 shall be used to calculate allocations of CSAPR NO_X Annual allowances under 40 CFR 97.411(a)(2) and (b) and 97.412 and to determine compliance with the CSAPR NO_X Annual emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.430 through 97.435 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) NO_X emissions requirements.
(1) CSAPR NO_X Annual emissions limitation.
(i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO_X Annual source and each CSAPR NO_X Annual unit at the source shall hold, in the source's compliance account, CSAPR NO_X Annual allowances available for deduction for such control period under 40 CFR 97.424(a) in an amount not less than the tons of total NO_X emissions for such control period from all CSAPR NO_X Annual units at the source.
(ii). If total NO_X emissions during a control period in a given year from the CSAPR NO_X Annual units at a CSAPR NO_X Annual source are in excess of the CSAPR NO_X Annual emissions limitation set forth in paragraph (c)(1)(i) above, then:
(A). The owners and operators of the source and each CSAPR NO_X Annual unit at the source shall hold the CSAPR NO_X Annual allowances required for deduction under 40 CFR 97.424(d); and
(B). The owners and operators of the source and each CSAPR NO_X Annual unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart AAAAA and the Clean Air Act.
(2) CSAPR NO_X Annual assurance provisions.
(i). If total NO_X emissions during a control period in a given year from all CSAPR NO_X Annual units at CSAPR NO_X Annual sources in the state and Indian country within the borders of such State exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_X emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NO_X Annual allowances available for deduction for such control period under 40 CFR

97.425(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.425(b), of multiplying— (A) The quotient of the amount by which the common designated representative's share of such NO_X emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state and Indian country within the borders of such state for such control period, by which each common designated representative's share of such NO_X emissions exceeds the respective common designated representative's assurance level; and (B) The amount by which total NO_X emissions from all CSAPR NO_X Annual units at CSAPR NO_X Annual sources in the state and Indian country within the borders of such state for such control period exceed the state assurance level.

(ii). The owners and operators shall hold the CSAPR NO_X Annual allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii). Total NO_X emissions from all CSAPR NO_X Annual units at CSAPR NO_X Annual sources in the State and Indian country within the borders of such state during a control period in a given year exceed the state assurance level if such total NO_X emissions exceed the sum, for such control period, of the state NO_X Annual trading budget under 40 CFR 97.410(a) and the state's variability limit under 40 CFR 97.410(b).

(iv). It shall not be a violation of 40 CFR Part 97, Subpart AAAAA or of the Clean Air Act if total NO_X emissions from all CSAPR NO_X Annual units at CSAPR NO_X Annual sources in the State and Indian country within the borders of such State during a control period exceed the state assurance level or if a common designated representative's share of total NO_X emissions from the CSAPR NO_X Annual units at CSAPR NO_X Annual sources in the state and Indian country within the borders of such state during a control period exceeds the common designated representative's assurance level.

(v). To the extent the owners and operators fail to hold CSAPR NO_X Annual allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,

(A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B). Each CSAPR NO_X Annual allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart AAAAA and the Clean Air Act.

(3) Compliance periods.

(i). A CSAPR NO_X Annual unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015, or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.

(ii). A CSAPR NO_X Annual unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

(i). A CSAPR NO_X Annual allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a CSAPR NO_X Annual allowance that was allocated for such control period or a control period in a prior year.

(ii). A CSAPR NO_X Annual allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a CSAPR NO_X Annual allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each CSAPR NO_X Annual allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR Part 97, Subpart AAAAA.

(6) Limited authorization. A CSAPR NO_X Annual allowance is a limited authorization to emit one ton of NO_X during the control period in one year. Such authorization is limited in its use and duration as follows:

(i). Such authorization shall only be used in accordance with the CSAPR NO_X Annual Trading Program; and

(ii). Notwithstanding any other provision of 40 CFR Part 97, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A CSAPR NO_X Annual allowance does not constitute a property right.

(d) Title V permit revision requirements.

(1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR NO_X Annual allowances in accordance with 40 CFR Part 97, Subpart AAAAA.

(2) This permit incorporates the CSAPR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.430 through 97.435, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR Part 75, Subparts B and H), an excepted monitoring system (pursuant to 40 CFR Part 75, Appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR Part 75, Subpart E). Therefore, the Description of CSAPR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.406(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of each CSAPR NO_X Annual source and each CSAPR NO_X Annual unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

(i). The certificate of representation under 40 CFR 97.416 for the designated representative for the source and each CSAPR NO_X Annual unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.416 changing the designated representative.

(ii). All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart AAAAA.

(iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NO_X Annual Trading Program.

(2) The designated representative of a CSAPR NO_X Annual source and each CSAPR NO_X Annual unit at the source shall make all submissions required under the CSAPR NO_X Annual Trading Program, except as provided in 40 CFR 97.418. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR Parts 70 and 71.

(f) Liability.

(1) Any provision of the CSAPR NO_X Annual Trading Program that applies to a CSAPR NO_X Annual source or the designated representative of a CSAPR NO_X Annual source shall also apply to the owners and operators of such source and of the CSAPR NO_X Annual units at the source.

(2) Any provision of the CSAPR NO_X Annual Trading Program that applies to a CSAPR NO_X Annual unit or the designated representative of a CSAPR NO_X Annual unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.

No provision of the CSAPR NO_X Annual Trading Program or exemption under 40 CFR 97.405 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NO_X Annual source or CSAPR NO_X Annual unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

(h) Effect on units in Indian country.
Notwithstanding the provisions of paragraphs (a) through (g) above, paragraphs (a) through (g) shall be deemed not to impose any requirements on any source or unit, or any owner, operator, or designated representative with regard to any source or unit, in Indian country within the borders of the state.

SECTION II: CSAPR NO_X Ozone Season Group 3 Trading Program Requirements (40 CFR 97.1006)

(a) Designated representative requirements.
The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.1013 through 97.1018.

(b) Emissions monitoring, reporting, and recordkeeping requirements.
(1) The owners and operators, and the designated representative, of each CSAPR NO_X Ozone Season Group 3 source and each CSAPR NO_X Ozone Season Group 3 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.1030 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.1031 (initial monitoring system certification and recertification procedures), 97.1032 (monitoring system out-of-control periods), 97.1033 (notifications concerning monitoring), 97.1034 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.1035 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
(2) The emissions data determined in accordance with 40 CFR 97.1030 through 97.1035 shall be used to calculate allocations of CSAPR NO_X Ozone Season Group 3 allowances under 40 CFR 97.1011(a)(2) and (b) and 97.1012 and to determine compliance with the CSAPR NO_X Ozone Season Group 3 emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.1030 through 97.1035 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) NO_X emissions requirements.
(1) CSAPR NO_X Ozone Season Group 3 emissions limitation.
(i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO_X Ozone Season Group 3 source and each CSAPR NO_X Ozone Season Group 3 unit at the source shall hold, in the source's compliance account, CSAPR NO_X Ozone Season Group 3 allowances available for deduction for such control period under 40 CFR 97.1024(a) in an amount not less than the tons of total NO_X emissions for such control period from all CSAPR NO_X Ozone Season Group 3 units at the source.
(ii). If total NO_X emissions during a control period in a given year from the CSAPR NO_X Ozone Season Group 3 units at a CSAPR NO_X Ozone Season Group 3 source are in excess of the CSAPR NO_X Ozone Season Group 3 emissions limitation set forth in paragraph (c)(1)(i) above, then:
(A). The owners and operators of the source and each CSAPR NO_X Ozone Season Group 3 unit at the source shall hold the CSAPR NOX Ozone Season Group 3 allowances required for deduction under 40 CFR 97.1024(d); and
(B). The owners and operators of the source and each CSAPR NO_X Ozone Season Group 3 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart GGGGG and the Clean Air Act.
(2) CSAPR NO_X Ozone Season Group 3 assurance provisions.
(i). If total NO_X emissions during a control period in a given year from all CSAPR NO_X Ozone Season Group 3 units at CSAPR NO_X Ozone Season Group 3 sources in the state and Indian country within the borders of such state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_X emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established

for the owners and operators of such group) CSAPR NO_X Ozone Season Group 3 allowances available for deduction for such control period under 40 CFR 97.1025(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.1025(b), of multiplying—

(A). The quotient of the amount by which the common designated representative's share of such NO_X emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state and Indian country within the borders of such state for such control period, by which each common designated representative's share of such NO_X emissions exceeds the respective common designated representative's assurance level; and

(B). The amount by which total NO_X emissions from all CSAPR NO_X Ozone Season Group 3 units at CSAPR NO_X Ozone Season Group 3 sources in the state and Indian country within the borders of such state for such control period exceed the state assurance level.

(ii). The owners and operators shall hold the CSAPR NO_X Ozone Season Group 3 allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii). Total NO_X emissions from all CSAPR NO_X Ozone Season Group 3 units at CSAPR NO_X Ozone Season Group 3 sources in the state and Indian country within the borders of such state during a control period in a given year exceed the state assurance level if such total NO_X emissions exceed the sum, for such control period, of the State NO_X Ozone Season Group 3 trading budget under 40 CFR 97.1010(a) and the state's variability limit under 40 CFR 97.1010(b).

(iv). It shall not be a violation of 40 CFR Part 97, Subpart GGGGG or of the Clean Air Act if total NO_X emissions from all CSAPR NO_X Ozone Season Group 3 units at CSAPR NO_X Ozone Season Group 3 sources in the state and Indian country within the borders of such state during a control period exceed the state assurance level or if a common designated representative's share of total NO_X emissions from the CSAPR NO_X Ozone Season Group 3 units at CSAPR NO_X Ozone Season Group 3 sources in the state and Indian country within the borders of such state during a control period exceeds the common designated representative's assurance level.

(v). To the extent the owners and operators fail to hold CSAPR NO_X Ozone Season Group 3 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,

(A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B). Each CSAPR NO_X Ozone Season Group 3 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart GGGGG and the Clean Air Act.

(3) Compliance periods.

(i). A CSAPR NO_X Ozone Season Group 3 unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.1030(b) and for each control period thereafter.

(ii). A CSAPR NO_X Ozone Season Group 3 unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.1030(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

(i). A CSAPR NOX Ozone Season Group 3 allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a CSAPR NO_X Ozone Season Group 3 allowance that was allocated for such control period or a control period in a prior year.

(ii). A CSAPR NO_X Ozone Season Group 3 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a CSAPR NO_X Ozone Season Group 3 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each CSAPR NO_X Ozone Season Group 3 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR Part 97, Subpart GGGGG.

(6) Limited authorization. A CSAPR NO_X Ozone Season Group 3 allowance is a limited authorization to emit one ton of NO_X during the control period in one year. Such authorization is limited in its use and duration as follows:
   (i). Such authorization shall only be used in accordance with the CSAPR NO_X Ozone Season Group 3 Trading Program; and
   (ii). Notwithstanding any other provision of 40 CFR Part 97, Subpart GGGGG, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A CSAPR NO_X Ozone Season Group 3 allowance does not constitute a property right.

(d) Title V permit revision requirements.

(1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR NO_X Ozone Season Group 3 allowances in accordance with 40 CFR Part 97, Subpart GGGGG.

(2) This permit incorporates the CSAPR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.1030 through 97.1035, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR Part 75, Subparts B and H), an excepted monitoring system (pursuant to 40 CFR Part 75, Appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR Part 75, Subpart E). Therefore, the Description of CSAPR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.1006(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of each CSAPR NO_X Ozone Season Group 3 source and each CSAPR NO_X Ozone Season Group 3 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.
   (i). The certificate of representation under 40 CFR 97.1016 for the designated representative for the source and each CSAPR NO_X Ozone Season Group 3 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.1016 changing the designated representative.
   (ii). All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart GGGGG.
   (iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NO_X Ozone Season Group 3 Trading Program.

(2) The designated representative of a CSAPR NO_X Ozone Season Group 3 source and each CSAPR NO_X Ozone Season Group 3 unit at the source shall make all submissions required under the CSAPR NO_X Ozone Season Group 3 Trading Program, except as provided in 40 CFR 97.1018. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR Parts 70 and 71.

(f) Liability.

(1) Any provision of the CSAPR NO_X Ozone Season Group 3 Trading Program that applies to a CSAPR NO_X Ozone Season Group 3 source or the designated representative of a CSAPR NO_X Ozone Season Group 3 source shall also apply to the owners and operators of such source and of the CSAPR NO_X Ozone Season Group 3 units at the source.

(2) Any provision of the CSAPR NO_X Ozone Season Group 3 Trading Program that applies to a CSAPR NO_X Ozone Season Group 3 unit or the designated representative of a CSAPR NO_X Ozone Season Group 3 unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.
No provision of the CSAPR NO_X Ozone Season Group 3 Trading Program or exemption under 40 CFR 97.1005 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NO_X Ozone Season Group 3 source or CSAPR NO_X Ozone Season Group 3 unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

(h) Effect on units in Indian country.
Notwithstanding the provisions of paragraphs (a) through (g) above, paragraphs (a) through (g) shall be deemed not to impose any requirements on any source or unit, or any owner, operator, or designated representative with regard to any source or unit, in Indian country within the borders of the state.

SECTION III: CSAPR SO_2 Group 1 Trading Program requirements (40 CFR 97.606)

(a) Designated representative requirements.
The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.613 through 97.618.

(b) Emissions monitoring, reporting, and recordkeeping requirements.
(1) The owners and operators, and the designated representative, of each CSAPR SO_2 Group 1 source and each CSAPR SO_2 Group 1 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.630 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.631 (initial monitoring system certification and recertification procedures), 97.632 (monitoring system out-of-control periods), 97.633 (notifications concerning monitoring), 97.634 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.635 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
(2) The emissions data determined in accordance with 40 CFR 97.630 through 97.635 shall be used to calculate allocations of CSAPR SO_2 Group 1 allowances under 40 CFR 97.611(a)(2) and (b) and 97.612 and to determine compliance with the CSAPR SO_2 Group 1 emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.630 through 97.635 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) SO_2 emissions requirements.
(1) CSAPR SO_2 Group 1 emissions limitation.
(i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR SO_2 Group 1 source and each CSAPR SO2 Group 1 unit at the source shall hold, in the source's compliance account, CSAPR SO_2 Group 1 allowances available for deduction for such control period under 40 CFR 97.624(a) in an amount not less than the tons of total SO_2 emissions for such control period from all CSAPR SO_2 Group 1 units at the source.
(ii). If total SO_2 emissions during a control period in a given year from the CSAPR SO_2 Group 1 units at a CSAPR SO_2 Group 1 source are in excess of the CSAPR SO_2 Group 1 emissions limitation set forth in paragraph (c)(1)(i) above, then:
(A). The owners and operators of the source and each CSAPR SO_2 Group 1 unit at the source shall hold the CSAPR SO_2 Group 1 allowances required for deduction under 40 CFR 97.624(d); and
(B). The owners and operators of the source and each CSAPR SO_2 Group 1 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation 40 CFR Part 97, Subpart CCCCC and the Clean Air Act.

(2) CSAPR SO_2 Group 1 assurance provisions.
  (i). If total SO_2 emissions during a control period in a given year from all CSAPR SO_2 Group 1 units at CSAPR SO_2 Group 1 sources in the state and Indian country within the borders of such state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such SO_2 emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR SO_2 Group 1 allowances available for deduction for such control period under 40 CFR 97.625(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.625(b), of multiplying—
    (A). The quotient of the amount by which the common designated representative's share of such SO_2 emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state and Indian country within the borders of such state for such control period, by which each common designated representative's share of such SO_2 emissions exceeds the respective common designated representative's assurance level; and
    (B). The amount by which total SO_2 emissions from all CSAPR SO_2 Group 1 units at CSAPR SO_2 Group 1 sources in the state and Indian country within the borders of such state for such control period exceed the state assurance level.
  (ii). The owners and operators shall hold the CSAPR SO_2 Group 1 allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.
  (iii). Total SO_2 emissions from all CSAPR SO_2 Group 1 units at CSAPR SO_2 Group 1 sources in the state and Indian country within the borders of such state during a control period in a given year exceed the state assurance level if such total SO_2 emissions exceed the sum, for such control period, of the state SO_2 Group 1 trading budget under 40 CFR 97.610(a) and the state's variability limit under 40 CFR 97.610(b).
  (iv). It shall not be a violation of 40 CFR Part 97, Subpart CCCCC or of the Clean Air Act if total SO_2 emissions from all CSAPR SO_2 Group 1 units at CSAPR SO_2 Group 1 sources in the state and Indian country within the borders of such state during a control period exceed the state assurance level or if a common designated representative's share of total SO_2 emissions from the CSAPR SO_2 Group 1 units at CSAPR SO_2 Group 1 sources in the state and Indian country within the borders of such state during a control period exceeds the common designated representative's assurance level.
  (v). To the extent the owners and operators fail to hold CSAPR SO_2 Group 1 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,
    (A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
    (B). Each CSAPR SO_2 Group 1 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart CCCCC and the Clean Air Act.

(3) Compliance periods.
  (i). A CSAPR SO_2 Group 1 unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.
  (ii). A CSAPR SO_2 Group 1 unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.
  (i). A CSAPR SO_2 Group 1 allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a CSAPR SO_2 Group 1 allowance that was allocated for such control period or a control period in a prior year.
  (ii). A CSAPR SO_2 Group 1 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a CSAPR SO_2

Group 1 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each CSAPR SO_2 Group 1 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR Part 97, Subpart CCCCC.

(6) Limited authorization. A CSAPR SO_2 Group 1 allowance is a limited authorization to emit one ton of SO_2 during the control period in one year. Such authorization is limited in its use and duration as follows:

(i). Such authorization shall only be used in accordance with the CSAPR SO_2 Group 1 Trading Program; and

(ii). Notwithstanding any other provision of 40 CFR Part 97, Subpart CCCCC, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A CSAPR SO_2 Group 1 allowance does not constitute a property right.

(d) Title V permit revision requirements.

(1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR SO_2 Group 1 allowances in accordance with 40 CFR Part 97, Subpart CCCCC.

(2) This permit incorporates the CSAPR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.630 through 97.635, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR Part 75, Subparts B and H), an excepted monitoring system (pursuant to 40 CFR Part 75, Appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR Part 75, Subpart E). Therefore, the Description of CSAPR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.606(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of each CSAPR SO_2 Group 1 source and each CSAPR SO_2 Group 1 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

(i). The certificate of representation under 40 CFR 97.616 for the designated representative for the source and each CSAPR SO_2 Group 1 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.616 changing the designated representative.

(ii). All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart CCCCC.

(iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR SO_2 Group 1 Trading Program.

(2) The designated representative of a CSAPR SO_2 Group 1 source and each CSAPR SO_2 Group 1 unit at the source shall make all submissions required under the CSAPR SO_2 Group 1 Trading Program, except as provided in 40 CFR 97.618. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR Parts 70 and 71.

(f) Liability.

(1) Any provision of the CSAPR SO_2 Group 1 Trading Program that applies to a CSAPR SO_2 Group 1 source or the designated representative of a CSAPR SO_2 Group 1 source shall also apply to the owners and operators of such source and of the CSAPR SO_2 Group 1 units at the source.

(2) Any provision of the CSAPR SO_2 Group 1 Trading Program that applies to a CSAPR SO_2 Group 1 unit or the designated representative of a CSAPR SO_2 Group 1 unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.
No provision of the CSAPR SO_2 Group 1 Trading Program or exemption under 40 CFR 97.605 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR SO_2 Group 1 source or CSAPR SO_2 Group 1 unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

(h) Effect on units in Indian country.
Notwithstanding the provisions of paragraphs (a) through (g) above, paragraphs (a) through (g) shall be deemed not to impose any requirements on any source or unit, or any owner, operator, or designated representative with regard to any source or unit, in Indian country within the borders of the state.

SECTION 3 – BLUE WATER ENERGY CENTER

A. GENERAL CONDITIONS

Permit Enforceability

- All conditions in this permit are both federally enforceable and state enforceable unless otherwise noted. **(R 336.1213(5))**

- Those conditions that are hereby incorporated in a state-only enforceable Source-Wide PTI pursuant to Rule 201(2)(d) are designated by footnote one. **(R 336.1213(5)(a), R 336.1214a(5))**

- Those conditions that are hereby incorporated in a federally enforceable Source-Wide PTI pursuant to Rule 201(2)(c) are designated by footnote two. **(R 336.1213(5)(b), R 336.1214a(3))**

General Provisions

1. The permittee shall comply with all conditions of this ROP. Any ROP noncompliance constitutes a violation of Act 451, and is grounds for enforcement action, for ROP revocation or revision, or for denial of the renewal of the ROP. All terms and conditions of this ROP that are designated as federally enforceable are enforceable by the Administrator of the United States Environmental Protection Agency (USEPA) and by citizens under the provisions of the federal Clean Air Act (CAA). Any terms and conditions based on applicable requirements which are designated as "state-only" are not enforceable by the USEPA or citizens pursuant to the CAA. **(R 336.1213(1)(a))**

2. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this ROP. **(R 336.1213(1)(b))**

3. This ROP may be modified, revised, or revoked for cause. The filing of a request by the permittee for a permit modification, revision, or termination, or a notification of planned changes or anticipated noncompliance does not stay any ROP term or condition. This does not supersede or affect the ability of the permittee to make changes, at the permittee's own risk, pursuant to Rule 215 and Rule 216. **(R 336.1213(1)(c))**

4. The permittee shall allow the department, or an authorized representative of the department, upon presentation of credentials and other documents as may be required by law and upon stating the authority for and purpose of the investigation, to perform any of the following activities: **(R 336.1213(1)(d))**
   a. Enter, at reasonable times, a stationary source or other premises where emissions-related activity is conducted or where records must be kept under the conditions of the ROP.
   b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the ROP.
   c. Inspect, at reasonable times, any of the following:
      i. Any stationary source.
      ii. Any emission unit.
      iii. Any equipment, including monitoring and air pollution control equipment.
      iv. Any work practices or operations regulated or required under the ROP.
   d. As authorized by Section 5526 of Act 451, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the ROP or applicable requirements.

5. The permittee shall furnish to the department, within a reasonable time, any information the department may request, in writing, to determine whether cause exists for modifying, revising, or revoking the ROP or to determine compliance with this ROP. Upon request, the permittee shall also furnish to the department copies of any records that are required to be kept as a term or condition of this ROP. For information which is claimed by the permittee to be confidential, consistent with the requirements of the 1976 PA 442, MCL §15.231 et seq., and known as the

Freedom of Information Act, the person may also be required to furnish the records directly to the USEPA together with a claim of confidentiality. **(R 336.1213(1)(e))**

6. A challenge by any person, the Administrator of the USEPA, or the department to a particular condition or a part of this ROP shall not set aside, delay, stay, or in any way affect the applicability or enforceability of any other condition or part of this ROP. **(R 336.1213(1)(f))**

7. The permittee shall pay fees consistent with the fee schedule and requirements pursuant to Section 5522 of Act 451. **(R 336.1213(1)(g))**

8. This ROP does not convey any property rights or any exclusive privilege. **(R 336.1213(1)(h))**

Equipment & Design

9. Any collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2).[2] **(R 336.1370)**

10. Any air cleaning device shall be installed, maintained, and operated in a satisfactory manner and in accordance with the Michigan Air Pollution Control rules and existing law. **(R 336.1910)**

Emission Limits

11. Unless otherwise specified in this ROP, the permittee shall comply with Rule 301, which states, in part, "Except as provided in Subrules 2, 3, and 4 of this rule, a person shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of a density greater than the most stringent of the following:"[2] **(R 336.1301(1))**
    a. A 6-minute average of 20% opacity, except for one 6-minute average per hour of not more than 27% opacity.
    b. A limit specified by an applicable federal new source performance standard.

    The grading of visible emissions shall be determined in accordance with Rule 303.

12. The permittee shall not cause or permit the emission of an air contaminant or water vapor in quantities that cause, alone or in reaction with other air contaminants, either of the following:
    a. Injurious effects to human health or safety, animal life, plant life of significant economic value, or property.[1] **(R 336.1901(a))**
    b. Unreasonable interference with the comfortable enjoyment of life and property.[1] **(R 336.1901(b))**

Testing/Sampling

13. The department may require the owner or operator of any source of an air contaminant to conduct acceptable performance tests, at the owner's or operator's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001(1).[2] **(R 336.2001)**

14. Any required performance testing shall be conducted in accordance with Rule 1001(2), Rule 1001(3) and Rule 1003. **(R 336.2001(2), R 336.2001(3), R 336.2003(1))**

15. Any required test results shall be submitted to the Air Quality Division (AQD) in the format prescribed by the applicable reference test method within 60 days following the last date of the test. **(R 336.2001(5))**

Monitoring/Recordkeeping

16. Records of any periodic emission or parametric monitoring required in this ROP shall include the following information specified in Rule 213(3)(b)(i), where appropriate. **(R 336.1213(3)(b))**
    a. The date, location, time, and method of sampling or measurements.
    b. The dates the analyses of the samples were performed.
    c. The company or entity that performed the analyses of the samples.
    d. The analytical techniques or methods used.
    e. The results of the analyses.
    f. The related process operating conditions or parameters that existed at the time of sampling or measurement.

17. All required monitoring data, support information and all reports, including reports of all instances of deviation from permit requirements, shall be kept and furnished to the department upon request for a period of not less than 5 years from the date of the monitoring sample, measurement, report or application. Support information includes all calibration and maintenance records and all original strip-chart recordings, or other original data records, for continuous monitoring instrumentation and copies of all reports required by the ROP. **(R 336.1213(1)(e), R 336.1213(3)(b)(ii))**

Certification & Reporting

18. Except for the alternate certification schedule provided in Rule 213(3)(c)(iii)(B), any document required to be submitted to the department as a term or condition of this ROP shall contain an original certification by a Responsible Official which state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. **(R 336.1213(3)(c))**

19. A Responsible Official shall certify to the appropriate AQD District Office and to the USEPA that the stationary source is and has been in compliance with all terms and conditions contained in the ROP except for deviations that have been or are being reported to the appropriate AQD District Office pursuant to Rule 213(3)(c). This certification shall include all the information specified in Rule 213(4)(c)(i) through (v) and shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the certification are true, accurate, and complete. The annual compliance certification (pursuant to Rule 213(4)(c)) shall be submitted to the USEPA through the USEPA's Central Data Exchange (CDX) using the Compliance and Emissions Data Reporting Interface (CEDRI), which can be accessed through CDX (https://cdx.epa.gov/), unless it contains confidential business information then use the following address: USEPA, Air Compliance Data - Michigan, Air and Radiation Division, 77 West Jackson Boulevard, Chicago, Illinois 60604-3507. **(R 336.1213(4)(c))**

20. The certification of compliance shall be submitted annually for the term of this ROP as detailed in the special conditions, or more frequently if specified in an applicable requirement or in this ROP. **(R 336.1213(4)(c))**

21. The permittee shall promptly report any deviations from ROP requirements and certify the reports. The prompt reporting of deviations from ROP requirements is defined in Rule 213(3)(c)(ii) as follows, unless otherwise described in this ROP. **(R 336.1213(3)(c))**
    a. For deviations that exceed the emissions allowed under the ROP, prompt reporting means reporting consistent with the requirements of Rule 912 as detailed in Condition 25. All reports submitted pursuant to this paragraph shall be promptly certified as specified in Rule 213(3)(c)(iii).
    b. For deviations which exceed the emissions allowed under the ROP and which are not reported pursuant to Rule 912 due to the duration of the deviation, prompt reporting means the reporting of all deviations in the semiannual reports required by Rule 213(3)(c)(i). The report shall describe reasons for each deviation and the actions taken to minimize or correct each deviation.
    c. For deviations that do not exceed the emissions allowed under the ROP, prompt reporting means the reporting of all deviations in the semiannual reports required by Rule 213(3)(c)(i). The report shall describe the reasons for each deviation and the actions taken to minimize or correct each deviation.

22. For reports required pursuant to Rule 213(3)(c)(ii), prompt certification of the reports is described in Rule 213(3)(c)(iii) as either of the following: **(R 336.1213(3)(c))**
    a. Submitting a certification by a Responsible Official with each report which states that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
    b. Submitting, within 30 days following the end of a calendar month during which one or more prompt reports of deviations from the emissions allowed under the ROP were submitted to the department pursuant to Rule 213(3)(c)(ii), a certification by a Responsible Official which states that; "based on information and belief formed after reasonable inquiry, the statements and information contained in each of the reports submitted during the previous month were true, accurate, and complete." The certification shall include a listing of the reports that are being certified. Any report submitted pursuant to Rule 213(3)(c)(ii) that will be certified on a monthly basis pursuant to this paragraph shall include a statement that certification of the report will be provided within 30 days following the end of the calendar month.

23. Semiannually for the term of the ROP as detailed in the special conditions, or more frequently if specified, the permittee shall submit certified reports of any required monitoring to the appropriate AQD District Office. All instances of deviations from ROP requirements during the reporting period shall be clearly identified in the reports. **(R 336.1213(3)(c)(i))**

24. On an annual basis, the permittee shall report the actual emissions, or the information necessary to determine the actual emissions, of each regulated air pollutant as defined in Rule 212(6) for each emission unit utilizing the emissions inventory forms provided by the department. **(R 336.1212(6))**

25. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the appropriate AQD District Office. The notice shall be provided not later than two business days after the start-up, shutdown, or discovery of the abnormal conditions or malfunction. Notice shall be by any reasonable means, including electronic, telephonic, or oral communication. Written reports, if required under Rule 912, must be submitted to the appropriate AQD District Supervisor within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal conditions or malfunction has been corrected, or within 30 days of discovery of the abnormal conditions or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5) and shall be certified by a Responsible Official in a manner consistent with the CAA.[2] **(R 336.1912)**

Permit Shield

26. Compliance with the conditions of the ROP shall be considered compliance with any applicable requirements as of the date of ROP issuance if either of the following provisions is satisfied. **(R 336.1213(6)(a)(i), R 336.1213(6)(a)(ii))**
    a. The applicable requirements are included and are specifically identified in the ROP.
    b. The permit includes a determination or concise summary of the determination by the department that other specifically identified requirements are not applicable to the stationary source.

    Any requirements identified in Part E of this ROP have been identified as non-applicable to this ROP and are included in the permit shield.

27. Nothing in this ROP shall alter or affect any of the following:
    a. The provisions of Section 303 of the CAA, emergency orders, including the authority of the USEPA under Section 303 of the CAA. **(R 336.1213(6)(b)(i))**
    b. The liability of the owner or operator of this source for any violation of applicable requirements prior to or at the time of this ROP issuance. **(R 336.1213(6)(b)(ii))**
    c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the CAA. **(R 336.1213(6)(b)(iii))**

d. The ability of the USEPA to obtain information from a source pursuant to Section 114 of the CAA. **(R 336.1213(6)(b)(iv))**

28. The permit shield shall not apply to provisions incorporated into this ROP through procedures for any of the following:
    a. Operational flexibility changes made pursuant to Rule 215. **(R 336.1215(5))**
    b. Administrative Amendments made pursuant to Rule 216(1)(a)(i)-(iv). **(R 336.1216(1)(b)(iii))**
    c. Administrative Amendments made pursuant to Rule 216(1)(a)(v) until the amendment has been approved by the department. **(R 336.1216(1)(c)(iii))**
    d. Minor Permit Modifications made pursuant to Rule 216(2). **(R 336.1216(2)(f))**
    e. State-Only Modifications made pursuant to Rule 216(4) until the changes have been approved by the department. **(R 336.1216(4)(e))**

29. Expiration of this ROP results in the loss of the permit shield. If a timely and administratively complete application for renewal is submitted not more than 18 months, but not less than 6 months, before the expiration date of the ROP, but the department fails to take final action before the end of the ROP term, the existing ROP does not expire until the renewal is issued or denied, and the permit shield shall extend beyond the original ROP term until the department takes final action. **(R 336.1217(1)(c), R 336.1217(1)(a))**

Revisions

30. For changes to any process or process equipment covered by this ROP that do not require a revision of the ROP pursuant to Rule 216, the permittee must comply with Rule 215. **(R 336.1215, R 336.1216)**

31. A change in ownership or operational control of a stationary source covered by this ROP shall be made pursuant to Rule 216(1). **(R 336.1219(2))**

32. For revisions to this ROP, an administratively complete application shall be considered timely if it is received by the department in accordance with the time frames specified in Rule 216. **(R 336.1210(10))**

33. Pursuant to Rule 216(1)(b)(iii), Rule 216(2)(d) and Rule 216(4)(d), after a change has been made, and until the department takes final action, the permittee shall comply with both the applicable requirements governing the change and the ROP terms and conditions proposed in the application for the modification. During this time period, the permittee may choose to not comply with the existing ROP terms and conditions that the application seeks to change. However, if the permittee fails to comply with the ROP terms and conditions proposed in the application during this time period, the terms and conditions in the ROP are enforceable. **(R 336.1216(1)(c)(iii), R 336.1216(2)(d), R 336.1216(4)(d))**

Reopenings

34. A ROP shall be reopened by the department prior to the expiration date and revised by the department under any of the following circumstances:
    a. If additional requirements become applicable to this stationary source with three or more years remaining in the term of the ROP, but not if the effective date of the new applicable requirement is later than the ROP expiration date. **(R 336.1217(2)(a)(i))**
    b. If additional requirements pursuant to Title IV of the CAA become applicable to this stationary source. **(R 336.1217(2)(a)(ii))**
    c. If the department determines that the ROP contains a material mistake, information required by any applicable requirement was omitted, or inaccurate statements were made in establishing emission limits or the terms or conditions of the ROP. **(R 336.1217(2)(a)(iii))**
    d. If the department determines that the ROP must be revised to ensure compliance with the applicable requirements. **(R 336.1217(2)(a)(iv))**

Renewals

35. For renewal of this ROP, an administratively complete application shall be considered timely if it is received by the department not more than 18 months, but not less than 6 months, before the expiration date of the ROP. **(R 336.1210(9))**

Stratospheric Ozone Protection

36. If the permittee is subject to Title 40 of the Code of Federal Regulations (CFR), Part 82 and services, maintains, or repairs appliances except for motor vehicle air conditioners (MVAC), or disposes of appliances containing refrigerant, including MVAC and small appliances, or if the permittee is a refrigerant reclaimer, appliance owner or a manufacturer of appliances or recycling and recovery equipment, the permittee shall comply with all applicable standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F.

37. If the permittee is subject to 40 CFR Part 82 and performs a service on motor (fleet) vehicles when this service involves refrigerant in the MVAC, the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term “motor vehicle” as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed by the original equipment manufacturer. The term MVAC as used in Subpart B does not include the air-tight sealed refrigeration system used for refrigerated cargo or an air conditioning system on passenger buses using Hydrochlorofluorocarbon-22 refrigerant.

Risk Management Plan

38. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall register and submit to the USEPA the required data related to the risk management plan for reducing the probability of accidental releases of any regulated substances listed pursuant to Section 112(r)(3) of the CAA as amended in 40 CFR 68.130. The list of substances, threshold quantities, and accident prevention regulations promulgated under 40 CFR Part 68, do not limit in any way the general duty provisions under Section 112(r)(1).

39. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall comply with the requirements of 40 CFR Part 68, no later than the latest of the following dates as provided in 40 CFR 68.10(a):
    a. June 21, 1999,
    b. Three years after the date on which a regulated substance is first listed under 40 CFR 68.130, or
    c. The date on which a regulated substance is first present above a threshold quantity in a process.

40. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall submit any additional relevant information requested by any regulatory agency necessary to ensure compliance with the requirements of 40 CFR Part 68.

41. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall annually certify compliance with all applicable requirements of Section 112(r) as detailed in Rule 213(4)(c)). **(40 CFR Part 68)**

Emission Trading

42. Emission averaging and emission reduction credit trading are allowed pursuant to any applicable interstate or regional emission trading program that has been approved by the Administrator of the USEPA as a part of Michigan’s State Implementation Plan. Such activities must comply with Rule 215 and Rule 216. **(R 336.1213(12))**

Permit to Install (PTI)

43. The process or process equipment included in this permit shall not be reconstructed, relocated, or modified unless a PTI authorizing such action is issued by the department, except to the extent such action is exempt from the PTI requirements by any applicable rule.[2] **(R 336.1201(1))**

44. The department may, after notice and opportunity for a hearing, revoke PTI terms or conditions if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of the PTI or is violating the department's rules or the CAA.[2] **(R 336.1201(8), Section 5510 of Act 451)**

45. The terms and conditions of a PTI shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by the PTI. If a new owner or operator submits a written request to the department pursuant to Rule 219 and the department approves the request, this PTI will be amended to reflect the change of ownership or operational control. The request must include all of the information required by Subrules (1)(a), (b) and (c) of Rule 219. The written request shall be sent to the appropriate AQD District Supervisor, EGLE.[2] **(R 336.1219)**

46. If the installation, reconstruction, relocation, or modification of the equipment for which PTI terms and conditions have been approved has not commenced within 18 months of the original PTI issuance date, or has been interrupted for 18 months, the applicable terms and conditions from that PTI, as incorporated into the ROP, shall become void unless otherwise authorized by the department. Furthermore, the person to whom that PTI was issued, or the designated authorized agent, shall notify the department via the Supervisor, Permit Section, EGLE, AQD, P. O. Box 30260, Lansing, Michigan 48909, if it is decided not to pursue the installation, reconstruction, relocation, or modification of the equipment allowed by the terms and conditions from that PTI.[2] **(R 336.1201(4))**

Footnotes:
[1]This condition is state-only enforceable and was established pursuant to Rule 201(1)(b).
[2]This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

B. SOURCE-WIDE CONDITIONS

Part B outlines the Source-Wide Terms and Conditions that apply to this stationary source. The permittee is subject to these special conditions for the stationary source in addition to the general conditions in Part A and any other terms and conditions contained in this ROP.

The permittee shall comply with all specific details in the special conditions and the underlying applicable requirements cited. If a specific condition type does not apply to this source, NA (not applicable) has been used in the table. If there are no Source-Wide Conditions, this section will be left blank.

C. EMISSION UNIT SPECIAL CONDITIONS

Part C outlines terms and conditions that are specific to individual emission units listed in the Emission Unit Summary Table. The permittee is subject to the special conditions for each emission unit in addition to the General Conditions in Part A and any other terms and conditions contained in this ROP.

The permittee shall comply with all specific details in the special conditions and the underlying applicable requirements cited. If a specific condition type does not apply, NA (not applicable) has been used in the table. If there are no conditions specific to individual emission units, this section will be left blank.

EMISSION UNIT SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-CTGHRSG1-BW	A 3,658 MMBTU/hr. natural gas-fired combustion turbine generator (CTG) coupled with a heat recovery steam generator (HRSG). The HRSG is equipped with a natural gas-fired duct burner rated at 800 MMBTU/hr. to provide heat for additional steam production. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with a combined oxidation catalyst for the control of CO and VOC's, and selective catalytic reduction (SCR) with dry low NO_X burners for the control of nitrogen oxides.	11-17-2021	FG-CTGHRSG-BW FG-CAM-OXCAT-BW FG-PROJECT-BW FG-MACTYYYY-BW
EU-CTGHRSG2-BW	A 3,658 MMBTU/hr. natural gas-fired combustion turbine generator (CTG) coupled with a heat recovery steam generator (HRSG). The HRSG is equipped with a natural gas-fired duct burner rated at 800 MMBTU/hr. to provide heat for additional steam production. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with a combined oxidation catalyst for the control of CO and VOC's, and selective catalytic reduction (SCR) with dry low NO_X burners for the control of nitrogen oxides.	11-17-2021	FG-CTGHRSG-BW FG-CAM-OXCAT-BW FG-PROJECT-BW FG-MACTYYYY-BW

Section 3 – Blue Water Energy Center

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-AUXBOILER-BW	A natural gas-fired auxiliary boiler, rated at 99.9 MMBTU/hr to facilitate startup of the CTG/HRSG trains and to operate as needed to keep the HRSG warm during periods of facility shutdown and startup and to provide steam to the steam turbine generator seals. The auxiliary boiler is equipped with low NO_X burners (LNB),flue gas recirculation (FGR), and continuous O2 trim controls.	09-13-2021	FG-DDDDD-LG-BW FG-PROJECT-BW
EU-FUELHTR1-BW	A natural gas-fired 12.12 MMBTU/hr heat input HP water bath fuel heater.	9-10-2021	FG-FUELHTRS-BW FG-DDDDD-LG-BW FG-PROJECT-BW
EU-FUELHTR2-BW	A natural gas-fired 2.39 MMBTU/hr heat input LP water bath fuel heater.	9-10-2021	FG-FUELHTRS-BW FG-DDDDD-SM-BW FG-PROJECT-BW
EU-EMENGINE-BW	A nominal 2 MW diesel-fueled emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is an EPA Tier 2 certified engine subject to NSPS IIII.	08-25-2021	FG-PROJECT-BW
EU-FPENGINE-BW	A 305 brake HP diesel-fueled emergency fire pump engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is an EPA Tier 3 certified engine subject to NSPS IIII.	06-03-2021	FG-PROJECT-BW
EU-CTLUBEOILTANKS-BW	Two combustion turbine lube oil tanks, each with a storage capacity of 5,333 gallons.	11-17-2021	FG-TANKS-BW FG-PROJECT-BW
EU-STLUBEOILTANKS-BW	A steam turbine lube oil tank with a storage capacity of 5,600 gallons.	11-17-2021	FG-TANKS-BW FG-PROJECT-BW
EU-STHYDROOILTANK-BW	A steam turbine hydraulic oil tank with a storage capacity of 740 gallons.	11-17-2021	FG-TANKS-BW FG-PROJECT-BW
EU-STSEALOILTANK-BW	A steam turbine seal oil tank with a storage capacity of 275 gallons.	11-17-2021	FG-TANKS-BW FG-PROJECT-BW
EU-FUELOILTANK-BW	A 359-gallon closed-roof tank for purposes of storing ultra-low sulfur diesel fuel. This tank services the diesel-fueled emergency fire pump engine.	08-25-2021	FG-TANKS-BW FG-PROJECT-BW

Section 3 – Blue Water Energy Center

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EU-GCLUBEOILTNKS-BW	Three gas compressor lube oils tanks with a total storage capacity of 330 gallons.	11-17-2021	FG-TANKS-BW FG-PROJECT-BW
EU-BFPOILTANKS-BW	Four boiler feedwater pump oil tanks with a total storage capacity of 212 gallons.	11-17-2021	FG-TANKS-BW FG-PROJECT-BW
EU-EMFUELTANK-BW	A 3,958-gallon closed-roof tank for purposes of storing ultra-low sulfur diesel fuel. This tank services the diesel-fueled emergency engine.	08-25-2021	FG-TANKS-BW FG-PROJECT-BW
EU-DLNNH3TANKS-BW	Two tanks for storage of 19% aqueous NH3 solution. Total storage capacity is 96,364 gallons.	11-17-2021	FG-TANKS-BW FG-PROJECT-BW
EU-SPACEHEATERS-BW	Natural gas-fired space heaters with a combined rating of 10 MMBTU/hr. or less to provide building heating.	06-03-2021	FG-SPACEHTRS-BW FG-PROJECT-BW
EU-COOLINGTOWER-BW	A 14 cell wet mechanical draft cooling tower equipped with drift eliminators.	11-17-2021	FG-COOLINGTWR-BW FG-PROJECT-BW
EU-COLDCLEANER-BW	New closed-cover cold cleaner.	06-03-2021	FG-PROJECT-BW

Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as allowed by R 336.1278 to R 336.1290.

EU-AUXBOILER-BW
EMISSION UNIT CONDITIONS

DESCRIPTION

A natural gas-fired auxiliary boiler, rated at 99.9 MMBTU/hr. to facilitate startup of the CTG/HRSG trains and to provide steam to the steam turbine generator seals. The auxiliary boiler is equipped with low NO_X burners (LNB), flue gas recirculation (FGR), and continuous O2 trim controls.

Flexible Group ID: FG-DDDDD-LG-BW, FG-PROJECT-BW

POLLUTION CONTROL EQUIPMENT

Low NO_X burners and flue gas recirculation for NO_X control.

1. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NO_X	0.036 lb/MMBTU[2]	Hourly	EU-AUXBOILER-BW	SC V.1 SC V.3	**R 336.1205(1)(a) & (b)** **R 336.2803** **R 336.2804** **R 336.2810**
2. NO_X	3.60 pph[2]	Hourly	EU-AUXBOILER-BW	SC V.1 SC V.3 SC VI.5	**R 336.1205(1) (a) & (b)** **R 336.2803** **R 336.2804** **R 336.2810**
3. CO	0.075 lb/MMBTU[2]	Hourly	EU-AUXBOILER-BW	SC V.1	**R 336.1205(1) (a) & (b)** **R 336.2804** **R 336.2810**
4. CO	7.49 pph[2]	Hourly	EU-AUXBOILER-BW	SC V.1 SC VI.2 SC VI.5	**R 336.1205(1) (a) & (b)** **R 336.2804** **R 336.2810**
5. PM	0.007 lb/MMBTU[2]	Hourly	EU-AUXBOILER-BW	SC V.1	**R 336.1205(1)(a) & (b)** **R 336.1331(1)(c)** **R 336.2810**
6. PM	0.7 pph[2]	Hourly	EU-AUXBOILER-BW	SC V.1 SC VI.2 SC VI.5	**R 336.1331(1)(c)** **R 336.2810**
7. PM10	0.007 lb/MMBTU[2]	Hourly	EU-AUXBOILER-BW	SC V.2	**R 336.1205(1)(a) & (b)** **R 336.2803** **R 336.2804** **R 336.2810**
8. PM10	0.7 pph[2]	Hourly	EU-AUXBOILER-BW	SC V.2 SC VI.2 SC VI.5	**R 336.1205(1)(a) & (b)** **R 336.2803** **R 336.2804** **R 336.2810**
9. PM2.5	0.007 lb/MMBTU[2]	Hourly	EU-AUXBOILER-BW	SC V.2	**R 336.1205(1)(a) & (b)** **R 336.2803** **R 336.2804** **R 336.2810**

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
10. PM2.5	0.7 pph[2]	Hourly	EU-AUXBOILER-BW	SC V.2 SC VI.2 SC VI.5	**R 336.1205(1)(a) & (b)** **R 336.2803** **R 336.2804** **R 336.2810**
11. SO_2	0.0012 lb/MMBTU[2]	Monthly	EU-AUXBOILER-BW	SC VI.4	**R 336.1205(1)(a) & (b)**
12. VOC	0.008 lb/MMBTU[2]	Hourly	EU-AUXBOILER-BW	SC V.1	**R 336.1205(1)(a) & (b)** **R 336.1702(a)** **R 336.2810**
13. VOC	0.80 pph[2]	Hourly	EU-AUXBOILER-BW	SC V.1	**R 336.1205(1)(a) & (b)** **R 336.1702(a)** **R 336.2810**
14. GHGs as CO2e	25,623 tpy[2]	12-month rolling time period as determined at the end of each calendar month	EU-AUXBOILER-BW	SC VI.2 SC VI.6	**R 336.1205(1)(a) & (b)** **R 336.2810,** **40 CFR 52.21(j)**

II. MATERIAL LIMIT(S)

1. The permittee shall burn only pipeline natural gas in EU-AUXBOILER-BW, with a sulfur content of 0.34 gr per 100 scf or less on a monthly basis.[2] **(R 336.1205(1)(a) & (b), R 336.2810, 40 CFR 52.21(j))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Within 180 days of initial startup, the permittee shall submit, implement, and maintain a malfunction abatement plan (MAP) as described in Rule 911(2) for EU-AUXBOILER-BW. The MAP shall, at a minimum, specify the following:

   a. A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.

   b. An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.

   c. A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.

   If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits.[2] **(R 336.1205(1)(a) & (b), R 336.1910, R 336.1911, R 336.2803, R 336.2804, R 336.2810)**

2. The permittee shall not operate EU-AUXBOILER-BW unless an acceptable plan that describes how emissions will be minimized during all startups, shutdowns and malfunctions has been submitted to the AQD District Supervisor. The plan shall incorporate procedures recommended by the equipment manufacturer as well as incorporating standard industry practices. The permittee shall submit the emission minimization plan and any modifications to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee

within 90 days of submittal, the plan or modified plan shall be considered approved.[2] **(R 336.1911, R 336.1912, R 336.2810, 40 CFR 52.21(j))**

3. The permittee shall not operate EU-AUXBOILER-BW for greater than 4,380 hours per 12-month rolling period as determined at the end of each calendar month.[2] **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The maximum design heat input capacity for EU-AUXBOILER-BW shall not exceed 99.9 MMBTU per hour on a fuel heat input basis.[2] **(R 336.1205(1)(a) & (b), R 336.1225, R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j), 40 CFR Part 60 Subpart Dc)**

2. The permittee shall not operate EU-AUXBOILER-BW unless the low NO_X burners and flue gas recirculation system are installed, maintained, and operated in a satisfactory manner. Satisfactory manner includes operating and maintaining the air pollution control equipment in accordance with the MAP required in SC III.1.[2] **(R 336.1205(1)(a) & (b), R 336.1910, R 336.2803, R 336.2804, R 336.2810)**

3. The permittee shall install, calibrate, maintain and operate, in a satisfactory manner, a device to monitor and record the hourly and daily natural gas usage rate for EU-AUXBOILER-BW.[2] **(R 336.1205(1)(a) & (b), R 336.1224, R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. Within 180 days after commencement of initial startup, the permittee shall verify NO_X, CO, PM, and VOCs emission rates from EU-AUXBOILER-BW by testing at the owner's expense, in accordance with Department requirements. The permittee shall complete the required testing once every five years, thereafter, unless an alternate testing schedule is approved by the District Supervisor. Testing shall be performed using an approved EPA Method listed in:

Pollutant	Test Method Reference
PM	40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules
NO_X	40 CFR Part 60, Appendix A
CO	40 CFR Part 60, Appendix A
VOCs	40 CFR Part 60, Appendix A

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.[2] **(R 336.1205(1)(a) & (b), R 336.1331(1)(c), R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804, R 336.2810)**

2. Within 180 days after commencement of initial startup, the permittee shall verify PM10 and PM2.5 emission rates from EU-AUXBOILER-BW by testing at the owner's expense, in accordance with Department requirements. Testing shall be performed using the approved EPA Method, 40 CFR Part 51, Appendix M. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date

of the test.[2] **(R 336.1205(1)(a) & (b), R 336.1331(1)(c), R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804, R 336.2810)**

3. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor not less than 30 days before testing of the time and place before performance tests are conducted. **(R 336.1213(3))**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 30th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.[2] **(R 336.1205(1)(a) & (b), R 336.1224, R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j))**

2. The permittee shall keep hourly and daily natural gas usage records, in a format acceptable to the AQD District Supervisor, indicating the amount of natural gas used, in cubic feet, on a clock hour and calendar day basis and shall calculate and keep monthly natural gas usage records, in a format acceptable to the AQD District Supervisor, indicating the amount of natural gas used, in cubic feet, on a calendar month basis and a 12-month rolling time period basis. The records must indicate the total amount of natural gas used in EU-AUXBOILER-BW. The permittee shall keep all records on file at the facility and make them available to the Department upon request.[2] **(R 336.1205(1)(a) & (b), R 336.1224, R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j), 40 CFR 60.48c(g))**

3. The permittee shall record hours of operation of EU-AUXBOILER-BW in a format acceptable to the AQD District Supervisor, indicating the total hours of operation in an individual calendar month and a 12-month rolling time period basis. The permittee shall keep all records on file at the facility and make them available to the Department upon request.[2] **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810)**

4. The permittee shall keep, in a satisfactory manner, records indicating the monthly sulfur content of the natural gas to meet SC II.1 for EU-AUXBOILER-BW on file at the facility and make them available to the Department upon request.[2] **(R 336.1205(1)(a) & (b))**

5. The permittee shall calculate and keep, in a satisfactory manner, records of hourly NO_X, CO, PM, PM10 and PM2.5 mass emissions (pph) for EU-AUXBOILER-BW. The permittee shall keep all records on file and make them available to the Department upon request. The calculations shall be performed using a method approved by the AQD District Supervisor.[2] **(R 336.1205(1)(a) & (b), R 336.2803, R 336.2804, R 336.2810)**

6. The permittee shall calculate and keep, in a satisfactory manner, records of monthly and 12-month rolling total CO_2e mass emissions for EU-AUXBOILER-BW. The permittee shall keep all records on file and make them available to the Department upon request. The calculations shall be performed according to Appendix 7-3 BW or an alternate method approved by the District Supervisor.[2] **(R 336.1205(1)(a) & (b), R 336.2810, 40 CFR 52.21(j))**

7. The permittee shall maintain monthly records of the heat value content of the natural gas based on information from the natural gas supplier. The permittee shall keep record on file and make them available to the Department upon request.[2] **(R 336.1205(1)(a), 40 CFR 60.40c(a))**

8. The permittee shall calculate and keep records of hourly heat input (MMBTU/hr) for EU-AUXBOILER-BW based on the monthly heat value and hourly gas usage to show compliance with SC IV.1. The permittee shall keep record on file and make them available to the Department upon request.[2] **(R 336.1205(1)(a), 40 CFR 60.40c(a))**

9. The permittee shall maintain records of all information necessary for all notifications and reports as specified in these special conditions as well as that information necessary to demonstrate compliance with the emission limits of this permit. This information shall include, but shall not be limited to the following:

   a. Compliance tests and any testing required under the special conditions of this permit.

b. Monitoring data.

c. Verification of heat input capacity required to show compliance with SC IV.1.

d. Identification, type and the amounts of fuel combusted in EU-AUXBOILER-BW on an hourly basis, calendar day basis, and calendar month basis.

e. All records required by 40 CFR 60.7 and 40 CFR 60.48c.

f. All calculations or documents necessary to show compliance with the limits contained in this permit.

All of the above information shall be stored in a format acceptable to the Air Quality Division and shall be consistent with the requirements of 40 CFR 60.7(f). The permittee shall keep all records on file and make them available to the Department upon request.[2] **(R 336.1205(1)(a) & (b), R 336.1224, R 336.1225, R 336.1331(1)(c), R 336.1702(a), R 336.1912, R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j), 40 CFR 60.7(f), 40 CFR Part 60, Subpart Dc)**

See Appendix 7-3 BW

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

4. The permittee shall submit any performance test reports including RATA reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. **(R 336.1213(3)(c), R 336.2001(5))**

See Appendix 8-3 BW

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-AUXBOILER-BW	43[2]	60[2]	**R 336.1225** **R 336.2803** **R 336.2804**

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and Dc, as they apply to EU-AUXBOILER-BW.[2] **(40 CFR Part 60, Subparts A and Dc)**

Footnotes:
[1] This condition is state only enforceable and was established pursuant to Rule 201(1)(b).
[2] This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

EU-EMENGINE-BW
EMISSION UNIT CONDITIONS

DESCRIPTION

A nominal 2 MW diesel-fueled emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is an EPA Tier 2 certified engine subject to NSPS IIII.

Flexible Group ID: FG-PROJECT-BW

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. $NMHC^{A}+NO_X$	6.4 g/kW-hr[B2]	Hourly	EU-EMENGINE-BW	SC V.1 SC VI.2 SC VI.3	**R 336.2803** **R 336.2804** **R 336.2810** **40 CFR 60.4205(b)** **40 CFR 60.4202(a)(2)** **Table 1 of 40 CFR 1039, Appendix I**
2. CO	3.5 g/kW-hr[B2]	Hourly	EU-EMENGINE-BW	SC V.1 SC VI.2 SC VI.3	**R 336.2804** **R 336.2810** **40 CFR 60.4205(b)** **40 CFR 60.4202(a)(2)** **Table 1 of 40 CFR 1039, Appendix I**
3. PM	0.20 g/kW-hr[B2]	Hourly	EU-EMENGINE-BW	SC V.1 SC VI.2 SC VI.3	**R 336.1331(1)(c)** **R 336.2810** **40 CFR 60.4205(b)** **40 CFR 60.4202(a)(2)** **Table 1 of 40 CFR 1039, Appendix I**
4. PM10	1.18 pph[2]	Hourly	EU-EMENGINE-BW	SC VI.6	**R 336.1205(1)(a) & (b)** **R 336.2803** **R 336.2804** **R 336.2810**
5. PM2.5	1.18 pph[2]	Hourly	EU-EMENGINE-BW	SC VI.6	**R 336.1205(1)(a) & (b)** **R 336.2803** **R 336.2804** **R 336.2810**
6. GHGs as CO_2e	161 tpy[2]	12-month rolling time period as determined at the end of each calendar month	EU-EMENGINE-BW	SC VI.7	**R 336.1205(1)(a) & (b)** **R 336.2810** **40 CFR 52.21(j)**
7. VOC	1.89 pph[2]	Hourly	EU-EMENGINE-BW	SC V.2	**R 336.1205(1)(a) & (b)** **R 336.1702** **R 336.2810**

[A] NMHC = nonmethane hydrocarbon
[B] These emission limits are for certified engines; if testing becomes required to demonstrate compliance, then the tested values must be compared to the Not to Exceed (NTE) requirements determined through 40 CFR 60.4212(c) where NTE requirements = (1.25) x (the 40 CFR part 1039 or 1042 standard for each pollutant).

II. MATERIAL LIMIT(S)

1. The permittee shall burn only diesel fuel in EU-EMENGINE-BW with the maximum sulfur content of 15 ppm (0.0015 percent) by weight, and a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.[2] **(R 336.1205(1)(a) & (b), 40 CFR 60.4207(b), 40 CFR 1090.305)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate EU-EMENGINE-BW for more than 4 hour per day, except during emergency conditions and required stack testing in SC V.1 and SC V.2, and not more than 500 hours per year on a 12-month rolling time period basis as determined at the end of each calendar month. The 4 hours and the 500 hours includes the hours for the purpose of necessary maintenance checks and readiness testing as described in SC III.2.[2] **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j))**

2. The permittee may operate EU-EMENGINE-BW for no more than 100 hours per calendar year for the purpose of necessary maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing. A petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency internal combustion engines beyond 100 hours per calendar year. EU-EMENGINE-BW may operate up to 50 hours per calendar year in non-emergency situations, but those 50 hours are counted towards the 100 hours per calendar year provided for maintenance and testing. Except as provided in 40 CFR 60.4211(f)(3)(i), the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or demand response, or to generate income for the permittee to supply non-emergency power as part of a financial arrangement with another entity.[2] **(40 CFR 60.4211(f))**

3. If EU-EMENGINE-BW is purchased and installed as a certified engine, according to procedures specified in 40 CFR Part 60, Subpart IIII, for the same model year and maximum engine power, the permittee shall meet the following requirements for EU-EMENGINE-BW:

   a. Operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions;

   b. Change only those emission-related settings that are permitted by the manufacturer; and

   c. Meet the requirements as specified in 40 CFR Parts 89, 94, and/or 1068, as they apply to EU-EMENGINE-BW.

   If the permittee does not operate and maintain the certified engine and control device according to SC III.3 a through c, the engine will be considered to be operating as a non-certified engine.[2] **(R 336.2810, 40 CFR 60.4211(a) & (c), 40 CFR 52.21(j))**

4. If the permittee is operating EU-EMENGINE-BW as a non-certified engine, the permittee shall keep a maintenance plan for EU-EMENGINE-BW and shall, to the extent practicable, maintain and operate engine in a manner consistent with good air pollution control practice for minimizing emissions.[2] **(R 336.2810, 40 CFR 60.4211(g)(3), 40 CFR 52.21(j))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain EU-EMENGINE-BW with a non-resettable hour meter to track the operating hours.[2] **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j), 40 CFR 60.4209(a))**

2. The maximum rated power output of EU-EMENGINE-BW shall not exceed a nominal capacity of 2.0 MW.[2] **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j))**

3. The permittee shall monitor, in a satisfactory manner, the diesel fuel usage for EU-EMENGINE-BW on a continuous basis.[2] **(R 336.1205(1)(a) & (b), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. If EU-EMENGINE-BW is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must demonstrate compliance with SC I.1, I.2. and I.3 as follows:

   a. Conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer.

   b. If a performance test is required, the performance tests shall be conducted according to 40 CFR 60.4212.

   c. Conduct subsequent performance testing every 8,760 hours of engine operation or every 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

   No less than 30 days prior to testing, a complete test plan shall be submitted to the AQD. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test.[2] **(40 CFR 60.4211(g)(3), 40 CFR 60.4212)**

2. Within 180 days after commencement of trial operation, the permittee shall verify VOC mass emissions from EU-EMENGINE-BW by testing at owner's expense, in accordance with Department requirements. The permittee shall complete the required testing once every five years, thereafter, unless an alternate testing schedule is approved by the District Supervisor. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.[2] **(R 336.1205(1)(a) & (b), R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2810)**

3. The permittee shall verify PM10, PM2.5, and VOC emission rates from EU-EMENGINE-BW by testing at owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in:

Pollutant	Test Method Reference
PM10/PM2.5	40 CFR Part 51, Appendix M
VOC	40 CFR Part 60, Appendix A

   An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the

AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**

4. The permittee shall verify the PM10 and PM2.5 emission rates from EU-EMENGINE-BW, at a minimum, every five years from the date of the last test. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**

5. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor not less than 30 days before testing of the time and place before performance tests are conducted. **(R 336.1213(3))**

See Appendix 5-3 BW

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 30th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.[2] **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j), 40 CFR 60.4211, 40 CFR 60.4214)**

2. The permittee shall keep, in a satisfactory manner, the following records for EU-EMENGINE-BW:

   a. If operated as a certified engine: The permittee shall keep records of the manufacturer certification documentation.

   b. If operated as a non-certified engine: The permittee shall keep records of testing required in SC V.1.

   The permittee shall keep all records on file and make them available to the Department upon request.[2] **(R 336.2810, 40 CFR 60.4211)**

3. The permittee shall keep, in a satisfactory manner, the following records of maintenance activity for EU-EMENGINE-BW:

   a. If operated as a certified engine: The permittee shall keep records of the manufacturer's emission-related written instructions, and records demonstrating that the engine has been maintained according to those instructions, as specified in SC III.3.

   b. If operated as a non-certified engine: The permittee shall keep records of a maintenance plan, as required by SC III.4, and maintenance activities.

   The permittee shall keep all records on file and make them available to the Department upon request.[2] **(R 336.2810, 40 CFR 60.4211)**

4. The permittee shall keep, in a satisfactory manner, test reports for EU-EMENGINE-BW required by SC V.2 on file at the facility. The permittee shall make the records available to the Department upon request. Records shall be maintained on file for a period of five years.[2] **(R 336.1205(1)(a) & (b), R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2810)**

5. The permittee shall keep, in a satisfactory manner, records of the diesel fuel usage for EU-EMENGINE-BW on an hourly, monthly, and 12-month rolling time period basis.[2] **(R 336.1205(1)(a) & (b), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j))**

6. The permittee shall calculate and keep, in a satisfactory manner, records of hourly PM10 and PM2.5 mass emissions for EU-EMENGINE-BW, as required by SC I.4 and SC I.5. The permittee shall keep all records on file and make them available to the Department upon request. The calculations shall be performed using a method approved by the AQD District Supervisor.[2] **(R 336.1205(1)(a) & (b), R 336.2803, R 336.2804, R 336.2810)**

7. The permittee shall calculate and keep, in a satisfactory manner, records of monthly and 12-month rolling total CO_2e mass emissions for EU-EMENGINE-BW, as required by SC I.6. The permittee shall keep all records on file and make them available to the Department upon request. The calculations shall be performed according to Appendix 7-3 BW or an alternate method approved by the District Supervisor.[2] **(R 336.1205(1)(a) & (b), R 336.2810, 40 CFR 52.21(j))**

8. The permittee shall monitor and record the total hours of operation and the hours of operation during non-emergencies for EU-EMENGINE-BW, on an hourly, daily, monthly, and 12-month rolling time period basis, in a manner acceptable to the AQD District Supervisor. The permittee shall document how many hours are spent for emergency operation of EU-EMENGINE-BW, including what classified the operation as emergency.[2] **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j), 40 CFR 60.4211, 40 CFR 60.4214)**

9. The permittee shall keep, in a satisfactory manner, fuel supplier certification records or fuel sample test data, for each delivery of diesel fuel oil used in EU-EMENGINE-BW, demonstrating that the fuel meets the requirement of 40 CFR 80.510(b), as specified in SC II.1. The certification or test data shall include the name of the oil supplier or laboratory, the sulfur content, and cetane index or aromatic content of the fuel oil.[2] **(R 336.1205(1)(a) & (b), 40 CFR 60.4207(b), 40 CFR 80.510(b))**

See Appendix 7-3 BW

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

4. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of EU-EMENGINE-BW.[2] **(R 336.1201(7)(a))**

5. The permittee shall submit a notification specifying whether EU-EMENGINE-BW will be operated in a certified or a non-certified manner to the AQD District Supervisor, in writing, within 30 days following the initial startup of the engine and within 30 days of switching the manner of operation.[2] **(R 336.1201(3))**

6. The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. **(R 336.1213(3)(c), R 336.2001(5))**

See Appendix 8-3 BW

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-EMENGINE	18[2]	16[2]	**R 336.1225** **R 336.2803** **R 336.2804**

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with the provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and IIII, as they apply to EU-EMENGINE-BW.[2] **(40 CFR Part 60, Subparts A and IIII, 40 CFR 63.6590)**

2. The permittee shall comply with the provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subparts A and ZZZZ, as they apply to EU-EMENGINE-BW, upon startup.[2] **(40 CFR Part 63, Subparts A and ZZZZ, 40 CFR 63.6595)**

3. New or reconstructed emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions do not have to meet the requirements of 40 CFR Part 63, Subparts ZZZZ and A except for the initial notification requirements of 40 CFR 63.6645(f). **(40 CFR 63.6590(b)(1)(i))**

Footnotes:
[1] This condition is state only enforceable and was established pursuant to Rule 201(1)(b).
[2] This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

EU-FPENGINE-BW
EMISSION UNIT CONDITIONS

DESCRIPTION

A 305 brake HP diesel-fueled emergency fire pump engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is an EPA Tier 3 certified engine subject to NSPS IIII.

Flexible Group ID: FG-PROJECT-BW

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. $NMHC^{A}+NO_X$	4.0 g/kW-hr[B2]	Hourly	EU-FPENGINE-BW	SC V.1 SC VI.2 SC VI.8	**R 336.2803** **R 336.2804** **R 336.2810** **40 CFR 60.4205(c)** **Table 4 of 40 CFR Part 60, Subpart IIII**
2. CO	3.5 g/kW-hr[B2]	Hourly	EU-FPENGINE-BW	SC V.1 SC VI.2 SC VI.8	**R 336.2804** **R 336.2810** **40 CFR 60.4205(c)** **Table 4 of 40 CFR Part 60, Subpart IIII**
3. PM	0.20 g/kW-hr[B2]	Hourly	EU-FPENGINE-BW	SC V.1 SC VI.2 SC VI.8	**R 336.1331(1)(c)** **R 336.2810** **40 CFR 60.4205(c)** **Table 4 of 40 CFR Part 60, Subpart IIII**
4. PM10	0.13 pph[2]	Hourly	EU-FPENGINE-BW	SC VI.4	**R 336.1205(1)(a) & (b)** **R 336.2803** **R 336.2804** **R 336.2810**
5. PM2.5	0.13 pph[2]	Hourly	EU-FPENGINE-BW	SC VI.4	**R 336.1205(1)(a) & (b)** **R 336.2803** **R 336.2804** **R 336.2810**
6. VOC	0.13 pph[2]	Hourly	EU-FPENGINE-BW	SC VI.9	**R 336.1205(1)(a) & (b)** **R 336.1702** **R 336.2810**
7. GHGs as CO_2e	86 tpy[2]	12-month rolling time period as determined at the end of each calendar month	EU-FPENGINE-BW	SC VI.5	**R 336.1205(1)(a) & (b)** **R 336.2810** **40 CFR 52.21(j)**

[A] NMHC = nonmethane hydrocarbon

[B] These emission limits are for certified engines; TESTING/SAMPLING becomes required to demonstrate compliance, then the tested values must be compared to the Not to Exceed (NTE) requirements determined through 40 CFR 60.4212(c).

II. MATERIAL LIMIT(S)

1. The permittee shall burn only diesel fuel in EU-FPENGINE-BW with the maximum sulfur content of 15 ppm (0.0015 percent) by weight, and a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.[2] **(R 336.1205(1)(a) & (b), 40 CFR 60.4207(b), 40 CFR 1090.305)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate EU-FPENGINE-BW for more than 1 hour per day, except during emergency conditions and required stack testing in SC V.1, and not more than 100 hours per year on a 12-month rolling time period basis as determined at the end of each calendar month. The 1 hours and the 100 hours includes the hours for the purpose of necessary maintenance checks and readiness testing as described in SC III.2.[2] **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j))**

2. The permittee may operate EU-FPENGINE-BW for no more than 100 hours per calendar year for the purpose of necessary maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing. A petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency internal combustion engines beyond 100 hours per calendar year. EU-FPENGINE-BW may operate up to 50 hours per calendar year in non-emergency situations, but those 50 hours are counted towards the 100 hours per calendar year provided for maintenance and testing. Except as provided in 40 CFR 60.4211(f)(3)(i), the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or demand response, or to generate income for the permittee to supply non-emergency power as part of a financial arrangement with another entity.[2] **(40 CFR 60.4211(f))**

3. EU-FPENGINE-BW is purchased and installed as a certified engine, according to procedures specified in 40 CFR Part 60, Subpart IIII, for the same model year and maximum engine power. The permittee shall meet the following requirements for EU-FPENGINE-BW:

   a. Operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions;

   b. Change only those emission-related settings that are permitted by the manufacturer; and

   c. Meet the requirements as specified in 40 CFR 89, 94, and/or 1068, as they apply to EU-FPENGINE-BW.

   If the permittee does not operate and maintain the certified engine and control device according to SC III.3 a through b, the engine will be considered to be operating as a non-certified engine.[2] **(40 CFR 60.4211(a) & (c), R 336.2810, 40 CFR 52.21(j))**

4. If the permittee is operating EU-FPENGINE-BW as a non-certified engine, the permittee shall keep a maintenance plan for EU-FPENGINE-BW and shall, to the extent practicable, maintain and operate EU-FPENGINE-BW in a manner consistent with good air pollution control practice for minimizing emissions.[2] **(40 CFR 60.4211(g)(2), R 336.2810, 40 CFR 52.21(j))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain EU-FPENGINE-BW with a non-resettable hours meter to track the operating hours.[2] **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j), 40 CFR 60.4209(a))**

2. The maximum rated power output of EU-FPENGINE-BW shall not exceed a nameplate capacity of 305 brake HP.[2] **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j), Table 4 of 40 CFR Part 60, Subpart IIII)**

3. The permittee shall monitor, in a satisfactory manner, the diesel fuel usage for EU-FPENGINE-BW on a continuous basis.[2] **(R 336.1205(1)(a) & (b), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. If EU-FPENGINE-BW is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must demonstrate compliance as follows:

   a. Conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer.

   b. If a performance test is required, the performance tests shall be conducted according to 40 CFR 60.4212.

   No less than 30 days prior to testing, a complete test plan shall be submitted to the AQD. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test.[2] **(40 CFR 60.4211(g)(2), 40 CFR 60.4212)**

2. Upon request by the AQD District Supervisor, the permittee shall verify the PM10/PM2.5 and emission rates from EU-FPENGINE-BW by testing at owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in:

Pollutant	Test Method Reference
PM10/PM2.5	40 CFR Part 51, Appendix M
VOC	40 CFR Part 60, Appendix A

   An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**

See Appendix 4-3 BW

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 30th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.[2] **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j), 40 CFR 60.4211, 40 CFR 60.4214)**

2. The permittee shall keep, in a satisfactory manner, the following records for EU-FPENGINE-BW:

   a. If operated as a certified engine: The permittee shall keep records of the manufacturer certification documentation.

   b. If operated as a non-certified engine: The permittee shall keep records of testing required in SC V.1.

   The permittee shall keep all records on file and make them available to the Department upon request.[2] **(R 336.2810, 40 CFR 60.4211)**

3. The permittee shall keep, in a satisfactory manner, records of the diesel fuel usage for EU-FPENGINE-BW on an hourly, monthly, and 12-month rolling time period basis.[2] **(R 336.1205(1)(a) & (b), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j))**

4. The permittee shall calculate and keep, in a satisfactory manner, records of hourly PM10 and PM2.5 mass emissions for EU-FPENGINE-BW, as required by SC I.4 and SC I.5. The permittee shall keep all records on file and make them available to the Department upon request. The calculations shall be performed using a method approved by the AQD District Supervisor.[2] **(R 336.1205(1)(a) & (b), R 336.2803, R 336.2804, R 336.2810)**

5. The permittee shall calculate and keep, in a satisfactory manner, records of monthly and 12-month rolling total CO_2e mass emissions for EU-FPENGINE-BW, as required by SC I.7. The permittee shall keep all records on file and make them available to the Department upon request. The calculations shall be performed according to Appendix 7-3 BW or an alternate method approved by the District Supervisor.[2] **(R 336.1205(1)(a) & (b), R 336.2810, 40 CFR 52.21(j))**

6. The permittee shall monitor and record the total hours of operation and the hours of operation during non-emergencies for EU-FPENGINE-BW, on an hourly, daily, monthly, and 12-month rolling time period basis, in a manner acceptable to the AQD District Supervisor. The permittee shall document how many hours are spent for emergency operation of EU-FPENGINE-BW, including what classified the operation as emergency.[2] **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j), 40 CFR 60.4211, 40 CFR 60.4214)**

7. The permittee shall keep, in a satisfactory manner, fuel supplier certification records or fuel sample test data, for each delivery of diesel fuel oil used in EU-FPENGINE-BW, demonstrating that the fuel meets the requirement of 40 CFR 80.510(b), as specified in SC II.1. The certification or test data shall include the name of the oil supplier or laboratory, the sulfur content, and cetane index or aromatic content of the fuel oil.[2] **(R 336.1205(1)(a) & (b), 40 CFR 60.4207(b), 40 CFR 80.510(b))**

8. The permittee shall keep, in a satisfactory manner, the following records of maintenance activity for EU-FPENGINE-BW:

   a. If operated as a certified engine: The permittee shall keep records of the manufacturer's emission-related written instructions, and records demonstrating that the engine has been maintained according to those instructions, as specified in SC III.3.

   b. If operated as a non-certified engine: The permittee shall keep records of a maintenance plan, as required by SC III.4, and maintenance activities.

   The permittee shall keep all records on file and make them available to the Department upon request.[2] **(R 336.2810, 40 CFR 60.4211)**

9. The permittee shall calculate and keep, in a satisfactory manner, records of hourly VOC mass emissions for EU-FPENGINE-BW, as required by SC I.6. The permittee shall keep all records on file and make them available to the Department upon request. The calculations shall be performed using a method approved by the AQD District Supervisor.[2] **(R 336.1205(1)(a) & (b), R 336.2810)**

See Appendix 7-3 BW

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

4. The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. **(R 336.1213(3)(c), R 336.2001(5))**

5. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of EU-FPENGINE-BW.[2] **(R 336.1201(7)(a))**

6. The permittee shall submit a notification specifying whether EU-FPENGINE-BW will be operated in a certified or a non-certified manner to the AQD District Supervisor, in writing, within 30 days following the initial startup of the engine and within 30 days of switching the manner of operation.[2] **(R 336.1201(3))**

See Appendix 8-3 BW

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVFPENGINE-BW	6[2]	13[2]	**R 336.1225** **R 336.2803** **R 336.2804**

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with the provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and IIII, as they apply to EU-FPENGINE-BW.[2] **(40 CFR Part 60, Subparts A and IIII, 40 CFR 63.6590)**

2. The permittee shall comply with the provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subparts A and ZZZZ, as they apply to EU-FPENGINE-BW, upon startup.[2] **(40 CFR Part 63, Subparts A and ZZZZ, 40 CFR 63.6595)**

3. New or reconstructed emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions do not have to meet the requirements of 40 CFR Part 63, Subparts ZZZZ and A except for the initial notification requirements of 40 CFR 63.6645(f). **(40 CFR 63.6590(b)(1))**

Footnotes:
[1] This condition is state only enforceable and was established pursuant to Rule 201(1)(b).
[2] This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

EU-COLDCLEANER-BW
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

New closed-cover cold cleaner(s).

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. The permittee shall not use cleaning solvents containing more than five percent by weight of the following halogenated compounds: methylene chloride, perchloroethylene, trichloroethylene, 1,1,1 trichloroethane, carbon tetrachloride, chloroform, or any combination thereof.[2] **(R 336.1225, R 336.1702(a))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Cleaned parts shall be drained for no less than 15 seconds or until dripping ceases.[2] **(R 336.1225, R 336.1702(a), R 336.1707(3)(b))**

2. The permittee shall perform routine maintenance on each cold cleaner as recommended by the manufacturer.[2] **(R 336.1225, R 336.1702(a))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The cold cleaner must meet one of the following design requirements:[2] **(R 336.1225, R 336.1702(a))**
   a. The air/vapor interface of the cold cleaner is no more than ten square feet.
   b. The cold cleaner is used for cleaning metal parts and the emissions are released to the general in-plant environment.

2. The cold cleaner shall be equipped with a device for draining cleaned parts.[2] **(R 336.1225, R 336.1702(a), R 336.1707(3)(b))**

3. All new and existing cold cleaners shall be equipped with a cover and the cover shall be closed whenever parts are not being handled in the cold cleaner.[2] **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.1707(3)(a), R 336.1910, R 336.2810)**

4. The cover of a new cold cleaner shall be mechanically assisted if the Reid vapor pressure of the solvent is more than 0.3 psia or if the solvent is agitated or heated.[2] **(R 336.1225, R 336.1702(a), R 336.1707(3)(a))**

5. If the Reid vapor pressure of any solvent used in a new cold cleaner is greater than 0.6 psia; or, if any solvent used in a new cold cleaner is heated above 120 degrees Fahrenheit, then the cold cleaner must comply with at least one of the following provisions:[2] **(R 336.1225, R 336.1702(a), R 336.1707(2)(a), (b), & (c))**

a. The cold cleaner must be designed such that the ratio of the freeboard height to the width of the cleaner is equal to or greater than 0.7.

b. The solvent bath must be covered with water if the solvent is insoluble and has a specific gravity of more than 1.0.

c. The cold cleaner must be controlled by a carbon adsorption system, condensation system, or other method of equivalent control approved by the AQD.

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. For each new cold cleaner in which the solvent is heated, the solvent temperature shall be monitored and recorded at least once each calendar week during routine operating conditions.[2] **(R 336.1225, R 336.1707)**

2. The permittee shall maintain the following information on file for each cold cleaner:[2] **(R 336.1225, R 336.1702(a), R 336.1707(2))**
   a. A serial number, model number, or other unique identifier for each cold cleaner.
   b. The date the unit was installed, manufactured or that it commenced operation.
   c. The air/vapor interface area for any unit claimed to be exempt under Rule 281(2)(h).
   d. The applicable Rule 201 exemption.
   e. The Reid vapor pressure of each solvent used.
   f. If applicable, the option chosen to comply with Rule 707(2).

3. The permittee shall maintain a current listing from the manufacturer of the chemical composition of each material, including the weight percent of each component, used in each cold cleaner. The data may consist of Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1213(3))**

4. The permittee shall maintain written operating procedures for each cold cleaner. These written procedures shall be posted in an accessible, conspicuous location near each cold cleaner.[2] **(R 336.1910,, R 336.1707(4))**

5. As noted in Rule 611(2)(c) and Rule 707(3)(c), if applicable, an initial demonstration that the waste solvent is a safety hazard shall be made prior to storage in non-closed containers. If the waste solvent is a safety hazard and is stored in non-closed containers, verification that the waste solvent is disposed of so that not more than 20 percent, by weight, is allowed to evaporate into the atmosphere shall be made on a monthly basis.[2] **(R 336.1225, R 336.1702(a), R 336.1707(3)(c))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

See Appendix 8-3 BW

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:
[1]This condition is state only enforceable and was established pursuant to Rule 201(1)(b).
[2]This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

D. FLEXIBLE GROUP SPECIAL CONDITIONS

Part D outlines the terms and conditions that apply to more than one emission unit. The permittee is subject to the special conditions for each flexible group in addition to the General Conditions in Part A and any other terms and conditions contained in this ROP.

The permittee shall comply with all specific details in the special conditions and the underlying applicable requirements cited. If a specific condition type does not apply, NA (not applicable) has been used in the table. If there are no special conditions that apply to more than one emission unit, this section will be left blank.

FLEXIBLE GROUP SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-CTGHRSG-BW	Two 3,658 MMBTU/hr natural gas-fired combustion turbine generators (CTGs) coupled with heat recovery steam generators (HRSGs). The HRSGs are equipped with natural gas-fired duct burners rated at 800 MMBTU/hr to provide heat for additional steam production. The HRSGs are not capable of operating independently from the CTG. The CTGs/HRSGs are equipped with a combined oxidation catalyst for the control of CO and VOCs, and selective catalytic reduction (SCR) with dry low NO_X burners for the control of NO_X.	EU-CTGHRSG1-BW EU-CTGHRSG2-BW
FG-CAM-OXCAT-BW	Oxidation catalyst for the control of CO and VOC from EU-CTGHRSG1-BW and EU-CTGHRSG2-BW.	EU-CTGHRSG1-BW EU-CTGHRSG2-BW
FG-COOLINGTWR-BW	A 14-cell wet mechanical draft cooling tower equipped with drift eliminators.	EU-COOLINGTOWER-BW
FG-FUELHTRS-BW	Two (2) natural gas-fired fuel gas heaters. One heater (EU-FUELHTR1-BW) is a high pressure heater rated at 12.12 MMBTU/hr and the other heater (EU-FUELHTR2-BW), is a low pressure heater rated at 2.39 MMBTU/hr.	EU-FUELHTR1-BW EU-FUELHTR2-BW
FG-TANKS-BW	Miscellaneous storage tanks.	EU-EMFUELTANK-BW EU-CTLUBEOILTANKS-BW EU-STLUBEOILTANKS-BW EU-STHYDROOILTANK-BW EU-STSEALOILTANK-BW EU-FUELOILTANK-BW EU-GCLUBEOILTNKS-BW EU-BFPOILTANKS-BW EU-DLNNH3TANKS-BW
FG-SPACEHTRS-BW	Natural gas-fired space heaters and air makeup units with a combined rating of 10 MMBTU/hr or less to provide building heating and ventilation.	EU-SPACEHEATERS-BW

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-DDDDD-LG-BW	Requirements for a new boiler and process heater that are designed to burn gas 1 subcategory fuel with a heat input capacity of 10 MMBTU/hr or greater at major sources of HAP emissions per 40 CFR Part 63, Subpart DDDDD (Boiler MACT). Units designed to burn gas 1 subcategory fuels include boilers or process heaters that burn only natural gas, refinery gas, and/or Other Gas 1 fuels. Units that burn liquid fuel for testing or maintenance purposes for less than a total of 48 hours per year, or that burn liquid fuel during periods of curtailment or supply interruptions are included in this definition. EU-AUXBOILER-BW is natural gas-fired auxiliary boiler, rated at 99.9 MMBTU/hr. equipped with low NO_X burners (LNB), flue gas recirculation (FGR) and a continuous oxygen trim system. EU-FUELHTR1-BW is a natural gas-fired 12.12 MMBTU/hr. heat input HP fuel heater that does not have a continuous oxygen trim system.	EU-FUELHTR1-BW EU-AUXBOILER-BW
FG-DDDDD-SM-BW	Requirements for a new boiler and process heater with a heat input capacity of <10 MMBTU/hr. for major sources of HAP emissions per 40 CFR Part 63, Subpart DDDDD (Boiler MACT). This boiler and process heater is designed to burn natural gas.	EU-FUELHTR2-BW
FG-PROJECT-BW	All equipment associated with the natural gas combined cycle power plant.	EU-CTGHRSG1-BW EU-CTGHRSG2-BW EU-AUXBOILER-BW EU-FUELHTR1-BW EU-FUELHTR2-BW EU-EMENGINE-BW EU-FPENGINE-BW EU-CTLUBEOILTANKS-BW EU-STLUBEOILTANKS-BW EU-STHYDROOILTANK-BW EU-STSEALOILTANK-BW EU-FUELOILTANK-BW EU-GCLUBEOILTNKS-BW EU-BFPOILTANKS-BW EU-EMFUELTANK-BW EU-DLNNH3TANKS-BW EU-COOLINGTOWER-BW EU-COLDCLEANER-BW EU-SPACEHEATERS-BW

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FG-MACTYYYY-BW	40 CFR Part 63, Subpart YYYY requirements for two 3,658 MMBTU/hr natural gas-fired combustion turbine generators (CTGs) coupled with heat recovery steam generators (HRSGs). The HRSGs are equipped with natural gas-fired duct burners rated at 800 MMBTU/hr to provide heat for additional steam production. The HRSGs are not capable of operating independently from the CTG.	EU-CTGHRSG1-BW EU-CTGHRSG2-BW

FG-CTGHRSG-BW
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Two 3,658 MMBTU/hr natural gas-fired combustion turbine generators (CTGs) coupled with heat recovery steam generators (HRSGs). The HRSGs are equipped with natural gas-fired duct burners rated at 800 MMBTU/hr to provide heat for additional steam production. The HRSGs are not capable of operating independently from the CTGs.

Emission Units: EU-CTGHRSG1-BW, EU-CTGHRSG2-BW

POLLUTION CONTROL EQUIPMENT

The CTGs/HRSGs are equipped with a combined oxidation catalyst for the control of CO and VOCs, and selective catalytic reduction (SCR) with dry low NO_X burners for the control of NO_X.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NO_X	2.0 ppmvd at 15% O_2 (each unit) C2	24-hour rolling average as determined each operating hour, except during startup and shutdown CE	EU-CTGHRSG1-BW EU-CTGHRSG2-BW	SC VI.2 SC VI.3 SC VI.10	**R 336.2810**
2. NO_X	15 ppm at 15% O_2 (each unit) 2DE	30-day rolling average as determined each operating day	EU-CTGHRSG1-BW EU-CTGHRSG2-BW	SC VI.2 SC VI.3 SC VI.10	**40 CFR 60.4320(a) E Table 1 of 40 CFR Part 60, Subpart KKKK**
3. NO_X	28.90 pph (each unit,) C2	24-hour rolling average as determined each operating hour, except during startup and shutdown CE	EU-CTGHRSG1-BW EU-CTGHRSG2-BW	SC VI.2 SC VI.3 SC VI.10	**R 336.2803 R 336.2804 R 336.2810**
4. NO_X	262.4 pph (each unit) E2	Operating hour during startup or shutdown E	EU-CTGHRSG1-BW EU-CTGHRSG2-BW	SC VI.2 SC VI.3 SC VI.10	**R 336.2803 R 336.2804 R 336.2810**
5. CO	0.0045 lb/MMBTU (each unit) C2	24-hour rolling average as determined each operating hour, except during startup and shutdown CE	EU-CTGHRSG1-BW EU-CTGHRSG2-BW	SC VI.2 SC VI.4 SC VI.10	**R 336.2810**
6. CO	17.59 pph (each unit) C2	24-hour rolling average as determined each operating hour, except during startup and shutdown CE	EU-CTGHRSG1-BW EU-CTGHRSG2-BW	SC VI.2 SC VI.4 SC VI.10	**R 336.2804 R 336.2810**
7. CO	791.5 pph (each unit) E2	Operating hour during startup or shutdown E	EU-CTGHRSG1-BW EU-CTGHRSG2-BW	SC VI.2 SC VI.4 SC VI.10	**R 336.2804 R 336.2810**
8. PM	16 pph (each unit) 2	Hourly	EU-CTGHRSG1-BW EU-CTGHRSG2-BW	SC V.1 SC VI.10	**R 336.1331(1)(c) R 336.2810**

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
9. PM	12.2 pph (each unit without duct burner firing)[2]	Hourly	EU-CTGHRSG1-BW EU-CTGHRSG2-BW	SC V.1 SC VI.10	**R 336.1331(1)(c)** **R 336.2810**
10. PM10	16 pph (each unit)[2]	Hourly	EU-CTGHRSG1-BW EU-CTGHRSG2-BW	SC V.1 SC VI.10	**R 336.1205(1)(a) & (b)** **R 336.2803** **R 336.2804** **R 336.2810**
11. PM10	12.2 pph (each unit without duct burner firing)[2]	Hourly	EU-CTGHRSG1-BW EU-CTGHRSG2-BW	SC V.1 SC VI.10	**R 336.1205(1)(a) & (b,** **R 336.2803** **R 336.2804** **R 336.2810**
12. PM2.5	16 pph (each unit) [2]	Hourly	EU-CTGHRSG1-BW EU-CTGHRSG2-BW	SC V.1 SC VI.10	**R 336.1205(1)(a) & (b)** **R 336.2803** **R 336.2804** **R 336.2810**
13. PM2.5	12.2 pph (each unit without duct burner firing)[2]	Hourly	EU-CTGHRSG1-BW EU-CTGHRSG2-BW	SC V.1 SC VI.10	**R 336.1205(1)(a) & (b)** **R 336.2803** **R 336.2804** **R 336.2810**
14. SO_2	4.45 pph (each unit)[2]	Hourly	EU-CTGHRSG1-BW EU-CTGHRSG2-BW	SC V.1 SC VI.10	**R 336.1205(1)(a) & (b)** **R 336.2803** **R 336.2804**
15. SO_2	0.0012 lb/MMBTU[H2]	Hourly	EU-CTGHRSG1-BW EU-CTGHRSG2-BW	SC VI.10	**R 336.2803** **R 336.2804** **40 CFR 60.4330**
16. VOC	0.0026 lb/MMBTU (each unit) [C2]	Hourly, except during startup and shutdown	EU-CTGHRSG1-BW EU-CTGHRSG2-BW	SC V.1 SC VI.10	**R 336.1205(1)(a) & (b)** **R 336.1702(a)** **R 336.2810**
17. VOC	0.0013 lb/MMBTU (each unit without duct burner firing) [C2]	Hourly, except during startup and shutdown	EU-CTGHRSG1-BW EU-CTGHRSG2-BW	SC V.1 SC VI.10	**R 336.1205(1)(a) & (b)** **R 336.1702(a)** **R 336.2810**
18. Sulfuric acid mist (H_2SO_4)	0.0013 lb/MMBTU (each unit)[2]	Hourly	EU-CTGHRSG1-BW EU-CTGHRSG2-BW	SC V.1 SC VI.10	**R 336.1205(1)(a) & (b)** **R 336.1224** **R 336.1225** **R 336.2810**
19. Sulfuric acid mist (H_2SO_4)	5.04 pph (each unit)[2]	Hourly	EU-CTGHRSG1-BW EU-CTGHRSG2-BW	SC V.1 SC VI.10	**R 336.1205(1)(a) & (b)** **R 336.1224** **R 336.1225** **R 336.2810**
20. GHGs as CO_2e	2,042,773 tpy (each unit)[2]	12-month rolling time period as determined at the end of each calendar month.	EU-CTGHRSG1-BW EU-CTGHRSG2-BW	SC VI.5 SC VI.6 SC VI.10	**R 336.1205(1)(a) & (b)** **R 336.2810** **40 CFR 52.21(j)**
21. CO_2	794 lb/MWh (each unit)[2]	12-operating-month rolling average basis as determined at the end of each operating calendar month.[F]	EU-CTGHRSG1-BW EU-CTGHRSG2-BW	SC VI.7 SC VI.8 SC VI.10	**R 336.1205(1)(a) & (b)** **R 336.2810** **40 CFR 52.21(j)** **40 CFR 60.5520(a)[G]** **Table 2 of 40 CFR Part 60, Subpart TTTT[G]**

ppmvd = parts per million by volume at 15 percent oxygen (O_2) and on a dry gas basis.
lb/MWh = pound per megawatt hour.

Unless otherwise noted, the limits apply at all times, both with the duct burners operating, and without the duct burners operating

[C] Does not include startup and shutdown.
[D] Table 1 of 40 CFR Part 60, Subpart KKKK also allows 96 ppm at 15 percent O_2 when the turbines are operating at less than 75 percent of peak load and at temperatures less than 0°F.
[E] Startup is defined as the period of time from initiation of the combustion process (flame-on) from shutdown status and continues until steady state operation (loads greater than a demonstrated percent of design capacity) is achieved. Shutdown is defined as that period of time from the lowering of the turbine output below the demonstrated steady state level, with the intent to shut down, until the point at which the fuel flow to the combustor is terminated. The demonstrated percent of design capacity, or demonstrated steady state level, shall be described in the plan required in SC III.2.
[F] Compliance is determined monthly at the end of the initial and each subsequent 12-operating-month period. The first month of the initial compliance period is defined in 40 CFR 60.5525(c)(1)(i).
[G] The emission limit as required in 40 CFR 60.5520(a) and Table 2 of 40 CFR Part 60, Subpart TTTT is 1,000 lb CO_2/MWh. SC I.21 subsumes the NSPS emission limit.
[H] The emission limit as required in 40 CFR 40 CFR 60.4330 is 0.060 lb SO_2/MMBTU. SC I.15 subsumes the NSPS emission limit.

II. MATERIAL LIMIT(S)

1. The permittee shall only burn pipeline natural gas with a sulfur content of 0.34 grains per 100 scf or less on an annual basis in any unit in FG-CTGHRSG-BW.[2] **(R 336.1205(1)(a) & (b), R 336.2810, 40 CFR 52.21(j), 40 CFR 60.4365, 40 CFR 60.4330)**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Within 180 days of trial operation, the permittee shall submit, implement, and maintain a malfunction abatement plan (MAP) as described in Rule 911(2) for EU-CTGHRSG1-BW and EU-CTGHRSG2-BW of FG-CTGHRSG-BW. The MAP shall, at a minimum, specify the following:
   a. A complete preventative maintenance program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.
   b. An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
   c. A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.
   d. Identification of the source, and operating variables and ranges for varying loads, shall be monitored and recorded. The normal operating range of these variables and a description of the method of monitoring shall be maintained.

   If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 90 days after such an event occurs. The permittee shall also amend the MAP within 90 days, if new equipment is installed or upon request from the AQD District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits.[2] **(R 336.1205(1)(a) & (b), R 336.1224, R 336.1702(a), R 336.1910, R 336.1911, R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j))**

2. The permittee shall not operate any unit in FG-CTGHRSG-BW unless the AQD District Supervisor has approved a plan that describes how emissions will be minimized during startup and shutdown. The plan shall incorporate procedures recommended by the equipment manufacturer as well as incorporating standard industry practices, and shall describe the demonstrated percent of design capacity, or demonstrated steady state level. Unless notified by the District Supervisor within 30 business days after plan submittal, the plan shall be deemed approved.[2] **(R 336.1911, R 336.1912, R 336.2810, 40 CFR 52.21(j), 40 CFR 60.4333(a))**

3. The total hours for startup and shutdown for each CTG/HRSG train in FG-CTGHRSG-BW shall not exceed 500 hours per 12-month rolling time period as determined at the end of each calendar month.[2] **(R 336.2803, R 336.2804, R 336.2810)**

4. The permittee shall operate and maintain EU-CTGHRSG1-BW and EU-CTGHRSG2-BW of FG-CTGHRSG-BW, including associated equipment and monitors, in a manner consistent with safety and good air pollution control practice.[2] **(40 CFR 60.4333(a), 40 CFR 60.5525(b))**

5. The permittee shall prepare a monitoring plan to quantify the hourly CO_2 mass emission rate (tons/hr), in accordance with the applicable provisions in 40 CFR 75.53(g) and (h). The electronic portion of the monitoring plan must be submitted using the ECMPS Client Tool and must be in place prior to reporting emissions data and/or the results of monitoring system certification tests under this subpart. The monitoring plan must be updated as necessary. Monitoring plan submittals must be made by the Designated Representative (DR), the Alternate DR, or a delegated agent of the DR (see 40 CFR 60.5555(c)).[2] **(40 CFR 60.5535(a), 40 CFR 60.5535(d)(1))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The maximum design heat input capacity for each turbine in FG-CTGHRSG-BW shall not exceed, on a fuel heat input basis, 3,658 MMBTU/hr per hour and the design heat input capacity for each duct burner in FG-CTGHRSG-BW shall not exceed, on a fuel heat input basis, 800 MMBTU per hour.[2] **(R 336.1205(1)(a) & (b), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j))**

2. The permittee shall not operate EU-CTGHRSG1-BW or EU-CTGHRSG2-BW of FG-CTGHRSG-BW unless each respective dry low NO_X burners, selective catalytic reduction, and oxidation catalyst are installed, maintained, and operated in a satisfactory manner, for each CTG/HRSG. Satisfactory manner includes operating and maintaining each control device in accordance with an approved MAP for FGCTGHRSG as required in SC III.1.[2] **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1910, R 336.2803, R 336.2804, R 336.2810)**

3. The permittee shall install, calibrate, maintain and operate in a satisfactory manner, devices to monitor and record the NO_X emissions and oxygen (O_2), or carbon dioxide (CO_2), content of the exhaust gas from both EU-CTGHRSG1-BW and EU-CTGHRSG2-BW of FG-CTGHRSG-BW on a continuous basis. The permittee shall install and operate the Continuous Emission Monitoring System (CEMS) to meet the timelines, requirements and reporting detailed in Appendix 3-3 BW.[2] **(R 336.1205(1)(a) & (b), R 336.2803, R 336.2804, R 336.2810, 40 CFR 60.4340(b)(1), 40 CFR 60.4345, 40 CFR Part 75)**

4. The permittee shall install, calibrate, maintain and operate in a satisfactory manner a device to monitor and record the CO emissions and oxygen (O_2), or carbon dioxide (CO_2), content of the exhaust gas from both EU-CTGHRSG1-BW and EU-CTGHRSG2-BW of FG-CTGHRSG-BW on a continuous basis. The permittee shall install and operate the Continuous Emission Monitoring System (CEMS) to meet the timelines, requirements and reporting detailed in Appendix 3-3 BW.[2] **(R 336.1205(1)(a) & (b), R 336.2804, R 336.2810, 40 CFR Part 75)**

5. The permittee shall install, calibrate, maintain and operate in a satisfactory manner, devices to monitor and record the natural gas flow rate for EU-CTGHRSG1-BW and EU-CTGHRSG2-BW of FG-CTGHRSG-BW on a continuous basis. Each device shall be operated in accordance with 40 CFR 60.4345(c).[2] **(R 336.1205(1)(a) & (b), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j), 40 CFR 60.4345)**

6. The permittee shall install, calibrate, maintain and operate in a satisfactory manner, devices to continuously measure and record the hourly gross electric output from EU-CTGHRSG1-BW and EU-CTGHRSG2-BW of FG-CTGHRSG-BW.[2] **(R 336.1205(1)(a) & (b), R 336.2810, 40 CFR 52.21(j), 40 CFR 60.5535(d)(1))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. Within 180 days after initial startup, the permittee shall verify PM, PM10, PM2.5, SO_2, VOC, and H_2SO_4 emission rates from EU-CTGHRSG1-BW and EU-CTGHRSG2-BW of FG-CTGHRSG-BW at maximum routine operating conditions, by testing at owner's expense, in accordance with Department requirements. The permittee must complete the required testing once every five years of operation, thereafter. Upon approval of the AQD District Supervisor, subsequent testing may be conducted upon EU-CTGHRSG1-BW or EU-CTGHRSG2-BW as a representative unit. However, the permittee shall not test the same representative unit in subsequent tests unless approved or requested by the AQD District Supervisor. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD. The AQD must approve the final plan prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test.[2] **(R 336.1205(1)(a) & (b), R 336.1331(1)(c), R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j))**

2. The permittee shall verify PM, PM10, PM2.5, SO_2, VOC, and H_2SO_4 emission rates from EU-CTGHRSG1-BW and EU-CTGHRSG2-BW of FG-CTGHRSG-BW by testing at owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in:

Pollutant	Test Method Reference
PM	40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules
PM10/PM2.5	40 CFR Part 51, Appendix M
SO_2	40 CFR Part 60, Appendix A
VOC	40 CFR Part 60, Appendix A
Sulfuric Acid Mist	40 CFR Part 60, Appendix A

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**

3. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor not less than 30 days before testing of the time and place before performance tests are conducted. **(R 336.1213(3))**

See Appendix 5-3 BW

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.[2] **(R 336.1205(1)(a) & (b), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j), 40 CFR 60.4345)**

2. The permittee shall continuously monitor and record, in a satisfactory manner, the NO_X and CO emissions and the O_2, or CO_2, emissions from EU-CTGHRSG1-BW and EU-CTGHRSG2-BW of FG-CTGHRSG-BW. The permittee shall operate each CEMS to meet the timelines, requirements and reporting detailed in Appendix 3-3

BW and shall use the CEMS data for determining compliance with SC I.1, SC I.2, SC I.3, SC I.4, SC I.5, SC I.6, and SC I.7.[2] **(R 336.1205(1)(a) & (b), R 336.2803, R 336.2804, R 336.2810, 40 CFR 60.4345)**

3. The permittee shall keep, in a satisfactory manner, hourly and 24-hour rolling average NO_X concentration and mass emission records, and 30-day rolling average NO_X concentration records for EU-CTGHRSG1-BW and EU-CTGHRSG2-BW of FG-CTGHRSG-BW, as required by SC I.1, SC I.2, SC I.3, and SC I.4. The permittee shall keep all records on file and make them available to the Department upon request.[2] **(R 336.1205(1)(a) & (b), R 336.2803, R 336.2804, R 336.2810, 40 CFR 60.4345)**

4. The permittee shall keep, in a satisfactory manner, hourly and 24-hour rolling average CO concentration and mass emission records for EU-CTGHRSG1-BW, and EU-CTGHRSG2-BW of FG-CTGHRSG-BW, as required by SC I.5, SC I.6, and SC I.7. The permittee shall keep all records on file and make them available to the Department upon request.[2] **(R 336.1205(1)(a) & (b), R 336.2804, R 336.2810)**

5. The permittee shall monitor and record, in a satisfactory manner, the natural gas usage for EU-CTGHRSG1-BW and EU-CTGHRSG2-BW of FG-CTGHRSG-BW on a monthly basis. The permittee shall keep all records on file and make them available to the Department upon request.[2] **(R 336.1205(1)(a) & (b), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j))**

6. The permittee shall calculate and keep, in a satisfactory manner, records of monthly and 12-month rolling total CO_2e mass emissions for EU-CTGHRSG1-BW, and EU-CTGHRSG2-BW of FG-CTGHRSG-BW, as required by SC I.20. The permittee shall keep all records on file and make them available to the Department upon request.[2] **(R 336.1205(1)(a) & (b), R 336.2810, 40 CFR 52.21(j))**

7. The permittee shall determine the hourly CO_2 mass emissions and hourly gross energy output for EU-CTGHRSG1-BW, and EU-CTGHRSG2-BW of FG-CTGHRSG-BW according to 40 CFR 60.5535(b) or (c) and 40 CFR 60.5540(a). The permittee shall keep records of the determined values for hourly CO_2 mass emissions and hourly gross energy output for both EUCTGHRSG1 and EUCTGHRSG2 of FGCTGHRSG.[2] **(40 CFR 60.5535(c), 40 CFR 60.5540(a), 40 CFR 60.5560)**

8. The permittee shall calculate and keep, in a satisfactory manner, records of the monthly and initial calculations, and each subsequent 12-operating-month calculation required by SC I.21 according to the procedures described in 40 CFR 60.5540:[2] **(R 336.1205(1)(a) & (b), R 336.2810, 40 CFR 52.21(j), 40 CFR 60.5540(a) & (b), 40 CFR 60.5560)**

   a. Total data is determined by summing valid operating hours for either CO_2 mass emissions or gross energy output.

   b. To determine compliance with SC I.21, the total CO_2 mass emissions for each unit, EU-CTGHRSG1-BW and EU-CTGHRSG2-BW of FG-CTGHRSG-BW, shall be divided by the total gross energy output value of the same unit, EU-CTGHRSG1-BW or EU-CTGHRSG2-BW of FG-CTGHRSG-BW.

   c. The final calculated value shall be rounded to two significant figures if the calculated value is less than 1,000 and to three significant figures if the calculated value is greater than 1,000.

9. The permittee shall keep, in a satisfactory manner, a record of the monthly and 12-month rolling total hours of startup and shutdown for EU-CTGHRSG1-BW and EU-CTGHRSG2-BW. The permittee shall keep all records on file and make them available to the Department upon request.[2] **(R 336.2803, R 336.2804, R 336.2810)**

10. The permittee shall maintain records of all information necessary for all notifications and reports as specified in these special conditions as well as that information necessary to demonstrate compliance with the emission limits of this permit for FG-CTGHRSG-BW. This information shall include, but shall not be limited to the following:

    a. Compliance tests and any testing required under the special conditions of this permit.

    b. Monitoring data.

    c. Total sulfur content and potential sulfur emissions, as applicable, of the natural gas as required by 40 CFR 60.4365(a) or (b).

d. Verification of heat input capacity.

e. Identification, type, and amount of fuel combusted on a calendar month basis.

f. Gross energy output on a calendar month basis.

g. Records of the duration of all dates and times of startup and shutdown events.

h. All calculations necessary to show compliance with the limits contained in this permit.

i. All records related to, or as required by, the MAP and the startup and shutdown plan.

All of the above information shall be stored in a format acceptable to the AQD District Supervisor and shall be consistent with the requirements of 40 CFR 60.7(f).[2] **(R 336.1205(1)(a) & (b), R 336.1224, R 336.1225, R 336.1331(1)(c), R 336.1702(a), R 336.1912, R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j), 40 CFR 60.7(f), 40 CFR 60.4345, 40 CFR 60.4365, 40 CFR 60.5525(b), 40 CFR 60.5560)**

See Appendices 3-3 BW and 7-3 BW

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

4. The permittee shall submit any performance test reports including RATA reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. **(R 336.1213(3)(c), R 336.2001(5))**

5. The permittee shall submit reports of excess emissions and monitor downtime, in accordance with 40 CFR 60.7(c) and with 40 CFR 60.4375 and 40 CFR 4380. The reports shall be postmarked by the 30th day following the end of each 6-month period.[2] **(40 CFR 60.7(c), 40 CFR 60.4375(a), 40 CFR 60.4380, 40 CFR 60.4395)**

6. The permittee shall prepare and submit the notifications specified in 40 CFR 60.19, as applicable, and 40 CFR 75.61, as applicable, for each unit, EU-CTGHRSG1-BW and EU-CTGHRSG2-BW of FG-CTGHRSG-BW.[2] **(40 CFR 60.5550(a) & (b))**

7. The permittee shall submit electronic quarterly reports as follows:[2] **(40 CFR 60.5555(a) & (b))**
   a. After each unit has accumulated the first 12-operating months, the permittee shall submit a report for the calendar quarter that includes the twelfth operating month no later than 30 days after the end of that quarter.
   b. Thereafter, the permittee shall submit a report for each subsequent calendar quarter, no later than 30 days after the end of the quarter.
   c. Each quarterly report shall include the information specified in 40 CFR 60.5555(a)(2).
   d. The final quarterly report of each calendar year shall include the information specified in 40 CFR 60.5555(a)(3).
   e. All electronic reports shall be submitted using the Emissions Collection and Monitoring Plan System (ECMPS) Client Tool provided by the Clean Air Markets Division in the Office of Atmospheric Programs of EPA.

8. The permittee shall meet all applicable reporting requirements and submit reports as required under 40 CFR Part 75, Subpart G in accordance with 40 CFR 75.64(a), which is also listed in 40 CFR 60.5555(c)(3)(i).[2] **(40 CFR 60.5555(c)(1) & (3)(i))**

See Appendix 8-3 BW

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-CTGHRSG1-BW	276[2]	200[2]	**R 336.1225** **R 336.2803** **R 336.2804**
2. SV-CTGHRSG2-BW	276[2]	200[2]	**R 336.1225** **R 336.2803** **R 336.2804**

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and KKKK, as they apply to each unit in FG-CTGHRSG-BW.[2] **(40 CFR Part 60, Subparts A and KKKK)**

2. The permittee shall comply with all provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and TTTT, as they apply to each unit in FG-CTGHRSG-BW.[2] **(40 CFR Part 60, Subparts A and TTTT)**

3. The permittee shall comply with the acid rain permitting provisions of 40 CFR 72.1 to 72.94, as outlined in a complete Phase II, Acid Rain Permit issued by the AQD. Phase II, Acid Rain Permit No. MI-AR-62192-2024 is hereby incorporated into this ROP as Appendix 9-3 BW. **(R 336.1902(1)(p))**

4. The permittee shall not allow the emission of an air pollutant to exceed the amount of any emission allowances that an affected source lawfully holds as of the allowance transfer deadline pursuant to R 336.1902(1)(p) and 40 CFR 72.9(c)(1)(i). **(R 336.1213(10))**

5. The permittee shall comply with the provisions of the Cross-State Air Pollution Rule SO_2 Group 1 Trading Program, as specified in 40 CFR Part 97, Subpart CCCCC, and identified in Appendix 10-3 BW. **(40 CFR Part 97, Subpart CCCCC)**

6. The permittee shall comply with the provisions of the Cross-State Air Pollution Rule NO_X Annual Trading Program, as specified in 40 CFR Part 97, Subpart AAAAA, and identified in Appendix 10-3 BW. **(40 CFR Part 97, Subpart AAAAA)**

7. The permittee shall comply with the provisions of the Cross State Air Pollution Rule NO_X Ozone Group 3 Trading Program, as specified in 40 CFR Part 97 Subpart GGGGG, and identified in Appendix 10-3 BW. **(40 CFR Part 97, Subpart GGGGG)**

Footnotes:
[1] This condition is state only enforceable and was established pursuant to Rule 201(1)(b).
[2] This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

FG-CAM-OXCAT-BW
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Oxidation catalyst for the control of CO and VOC from EU-CTGHRSG1-BW and EU-CTGHRSG2-BW.

POLLUTION CONTROL EQUIPMENT

Oxidation catalyst for the control of CO and VOCs

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee shall continuously monitor the outlet CO concentration and record every 15 minutes for an hourly average as an indicator of proper operation of the oxidation catalyst. The indicator range is 0.0045 lb/MMBTU, based on a 1-hour average as determined each operating hour. **(40 CFR 64.6(c)(1)(i) and (ii), 40 CFR 64.7(c))**

2. The continuous emission monitor system (CEMS) shall continuously monitor CO emissions from each engine. The averaging period is hourly. The monitor shall be calibrated according to 40 CFR 60, Appendix F. **(40 CFR 64.6(c)(1)(iii))**

3. An excursion is an outlet CO concentration above the indicator range of 0.0045 lb/MMBTU based on a 1-hour average as determined each hour. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of 40 CFR Part 64, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. **(40 CFR 64.6(c)(2), 40 CFR64.7(c))**

4. Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Furthermore, upon detecting an excursion, Blue Water Energy Center shall investigate the cause and initiate corrective action to the oxidation catalyst system as needed, as quickly as possible in accordance with good air pollution control practices to minimize emissions and submit necessary reports. **(40 CFR 64.7(d))**

5. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. **(40 CFR 64.6(c)(3), 40 CFR 64.7(c))**

6. The permittee shall properly maintain the CO CEMS monitoring system, including keeping necessary parts for routine repair of the monitoring equipment. **(40 CFR 64.7(b))**

7. The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan and any activities undertaken to implement a quality improvement plan, and other information such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions. **(40 CFR 64.9(b)(1))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

4. Each semiannual report of monitoring and deviations shall include summary information on the number, duration and cause of excursions and/or exceedances and the corrective actions taken. If there were no excursions and/or exceedances in the reporting period, then this report shall include a statement that there were no excursions and/or exceedances. **(40 CFR 64.9(a)(2)(i))**

5. Each semiannual report of monitoring and deviations shall include summary information on monitor downtime. If there were no periods of monitor downtime in the reporting period, then this report shall include a statement that there were no periods of monitor downtime. **(40 CFR 64.9(a)(2)(ii))**

See Appendix 8-3 BW

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENTS

1. The permittee shall comply with all applicable requirements of 40 CFR Part 64. **(40 CFR Part 64)**

2. If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly notify the AQD and if necessary, submit a proposed modification of the ROP and CAM Plan to address the necessary monitoring changes. Such a modification may include but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters. **(40 CFR 64.7(e))**

FG-COOLINGTWR-BW
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

A 14 cell mechanical draft (wet) cooling tower.

Emission Unit: EU-COOLINGTOWER-BW

POLLUTION CONTROL EQUIPMENT

Drift eliminators.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM	1.53 pph[2]	Hourly	EU-COOLINGTOWER-BW	SC VI.6	**R 336.1205(1)(a) & (b), R 336.1331, R 336.2810**
2. PM10	0.184 pph[2]	Hourly	EU-COOLINGTOWER-BW	SC VI.6	**R 336.1205(1)(a) & (b), R 336.2803, R 336.2804, R 336.2810**
3. PM2.5	0.184 pph[2]	Hourly	EU-COOLINGTOWER-BW	SC VI.6	**R 336.1205(1)(a) & (b), R 336.2803, R 336.2804, R 336.2810**

II. MATERIAL LIMIT(S)

Material	Limit	Time Period / Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Total Dissolved Solids (TDS) in cooling water	3,000 ppmw[2]	Based on monthly sampling	EU-COOLINGTOWER-BW	SC VI.4	**R 336.1205(1)(a) & (b), R 336.2810**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Within 180 days after start-up of the plant, the permittee shall submit, to the AQD District Supervisor, an inspection and maintenance program for FG-COOLINGTWR-BW. The permittee shall comply with the submitted program until the AQD District Supervisor approves the program or approves an amended program. Thereafter, the permittee shall comply with the approved program. At any time, the permittee may submit a modified program to the AQD District Supervisor for review and approval.[2] **(R 336.1910, R 336.2810)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain the cooling tower (FG-COOLINGTWR-BW) with drift eliminators with a vendor-certified maximum drift rate of 0.0005 percent or less.[2] **(R 336.1910, R 336.2810)**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. Within 180 days after start-up of the plant, and every seven years thereafter, the permittee shall determine drift loss from each cooling tower by testing, at owner's expense, in accordance with Department requirements. The permittee shall use the most recent version of the Cooling Technology Institute's Acceptable Test Code (ATC) 140, unless the AQD approves use of an alternate method. No less than 60 days prior to testing, the permittee shall submit a complete test plan to the AQD. The AQD must approve the final plan prior to testing. Determination of drift loss includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test.[2] **(R 336.2803, R 336.2804, R 336.2810)**

See Appendix 5-3 BW

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.[2] **(R 336.1205(1)(a) & (b), R 336.2803, R 336.2804, R 336.2810)**

2. For FG-COOLINGTWR-BW, the permittee shall maintain a record, for the life of the cooling tower, of the vendor's certification required in SC IV.1.[2] **(R 336.2810)**

3. The permittee shall monitor the following for FG-COOLINGTWR-BW:[2] **(R 336.2810)**
   a. On a weekly basis, parameters needed to determine the total dissolved solids content of the circulating water.
   b. On a monthly basis, parameters needed to determine the water recirculation rate.

4. The permittee shall calculate and keep records of the TDS in the circulating water for each cooling tower in FG-COOLINGTWR-BW on a monthly basis.[2] **(R 336.1205(1)(a) & (b), R 336.2810)**

5. The permittee shall keep, for FG-COOLINGTWR-BW, a record of the date the two most recent drift loss determinations were conducted.[2] **(R 336.2810)**

6. The permittee shall calculate and keep records of the PM, PM10, and PM2.5 emission rates, as specified in SC I.1 through SC I.3, for each cooling tower in FG-COOLINGTWR-BW on a monthly basis.[2] **(R 336.1205(1)(a) & (b), R 336.2810)**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

4. The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. **(R 336.1213(3)(c), R 336.2001(5))**

5. The permittee shall submit a complete report of the performance test results to the AQD within 60 days following the last date of the test.[2] **(R 336.2001, R 336.2002, R 336.2003)**

6. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification of FG-COOLINGTWR-BW authorized by this Permit to Install, the permittee or the authorized agent pursuant to Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of FG-COOLINGTWR-BW.[2] **(R 336.1201(7)(a))**

See Appendix 8-3 BW

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-COOLINGTOWER1-BW	463 (38.6 feet)[2]	66.5[2]	**R 336.2803 R 336.2804**
2. SV-COOLINGTOWER2-BW	463 (38.6 feet)[2]	66.5[2]	**R 336.2803 R 336.2804**
3. SV-COOLINGTOWER3-BW	463 (38.6 feet)[2]	66.5[2]	**R 336.2803 R 336.2804**
4. SV-COOLINGTOWER4-BW	463 (38.6 feet)[2]	66.5[2]	**R 336.2803 R 336.2804**
5. SV-COOLINGTOWER5-BW	463 (38.6 feet)[2]	66.5[2]	**R 336.2803 R 336.2804**
6. SV-COOLINGTOWER6-BW	463 (38.6 feet)[2]	66.5[2]	**R 336.2803 R 336.2804**
7. SV-COOLINGTOWER7-BW	463 (38.6 feet)[2]	66.5[2]	**R 336.2803 R 336.2804**
8. SV-COOLINGTOWER8-BW	463 (38.6 feet)[2]	66.5[2]	**R 336.2803 R 336.2804**
9. SV-COOLINGTOWER9-BW	463 (38.6 feet)[2]	66.5[2]	**R 336.2803 R 336.2804**
10. SV-COOLINGTOWER10-BW	463 (38.6 feet)[2]	66.5[2]	**R 336.2803 R 336.2804**
11. SV-COOLINGTOWER11-BW	463 (38.6 feet)[2]	66.5[2]	**R 336.2803 R 336.2804**
12. SV-COOLINGTOWER12-BW	463 (38.6 feet)[2]	66.5[2]	**R 336.2803 R 336.2804**
13. SV-COOLINGTOWER13-BW	463 (38.6 feet)[2]	66.5[2]	**R 336.2803 R 336.2804**
14. SV-COOLINGTOWER14-BW	463 (38.6 feet)[2]	66.5[2]	**R 336.2803 R 336.2804**

IX. OTHER REQUIREMENT(S)

NA

Footnotes:
[1] This condition is state only enforceable and was established pursuant to Rule 201(1)(b).
[2] This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

FG-FUELHTRS-BW
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Two (2) natural gas-fired water bath fuel heaters. One heater (EU-FUELHTR1-BW) is a high-pressure heater rated at 12.12 MMBTU/hr and the other heater (EFFUELHTR2-BW), is a low-pressure heater rated at 2.39 MMBTU/hr.

Emission Units: EU-FUELHTR1-BW, EU-FUELHTR2-BW

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NO_X	0.75 pph[2]	Hourly	EU-FUELHTR1-BW	SC VI.5 SC VI.7	**R 336.1205(1)(a) & (b)** **R 336.2803** **R 336.2804** **R 336.2810**
2. NO_X	0.14 pph[2]	Hourly	EU-FUELHTR2-BW	SC VI.5 SC VI.7	**R 336.1205(1)(a) & (b)** **R 336.2803** **R 336.2804** **R 336.2810**
3. CO	0.77 pph[2]	Hourly	EU-FUELHTR1-BW	SC VI.5 SC VI.7	**R 336.1205(1)(a) & (b)** **R 336.2804** **R 336.2810**
4. CO	0.14 pph[2]	Hourly	EU-FUELHTR2-BW	SC VI.5 SC VI.7	**R 336.1205(1)(a) & (b)** **R 336.2804** **R 336.2810**
5. PM	0.15 pph[2]	Hourly	EU-FUELHTR1-BW	SC V.1 SC VI.5 SC VI.7	**R 336.1331(1)(c)** **R 336.2810**
6. PM	0.03 pph[2]	Hourly	EU-FUELHTR2-BW	SC V.1 SC VI.5 SC VI.7	**R 336.1331(1)(c)** **R 336.2810**
7. PM10	0.15 pph[2]	Hourly	EU-FUELHTR1-BW	SC VI.5 SC VI.7	**R 336.1205(1)(a) & (b)** **R 336.2803** **R 336.2804** **R 336.2810**
8. PM10	0.03 pph[2]	Hourly	EU-FUELHTR2-BW	SC VI.5 SC VI.7	**R 336.1205(1)(a) & (b)** **R 336.2803** **R 336.2804** **R 336.2810**
9. PM2.5	0.15 pph[2]	Hourly	EU-FUELHTR1-BW	SC VI.5 SC VI.7	**R 336.1205(1)(a) & (b)** **R 336.2803** **R 336.2804** **R 336.2810**

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
10. PM2.5	0.03 pph[2]	Hourly	EU-FUELHTR2-BW	SC VI.5 SC VI.7	**R 336.1205(1)(a) & (b)** **R 336.2803** **R 336.2804** **R 336.2810**
11. VOC	0.17 pph[2]	Hourly	EU-FUELHTR1-BW	SC VI.5 SC VI.7	**R 336.1205(1)(a) & (b)** **R 336.1702(a)** **R 336.2810**
12. VOC	0.03 pph[2]	Hourly	EU-FUELHTR2-BW	SC VI.5 SC VI.7	**R 336.1205(1)(a) & (b)** **R 336.1702(a)** **R 336.2810**
13. GHGs as CO_2e	6,310 tpy[2]	12-month rolling time period as determined at the end of each calendar month	FG-FUELHTRS-BW	SC VI.6 SC VI.7	**R 336.1205(1)(a) & (b)** **R 336.2810** **40 CFR 52.21(j)**

II. MATERIAL LIMIT(S)

1. The permittee shall burn only pipeline natural gas in FG-FUELHTRS-BW, with a sulfur content of 0.34 gr per 100 scf or less on an annualized basis.[2] **(R 336.1205(1)(a) & (b), R 336.2810, 40 CFR 52.21(j))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The maximum design heat input capacity for EU-FUELHTR1-BW shall not exceed 20.8 MMBTU per hour on a fuel heat input basis. The maximum design heat input capacity for EU-FUELHTR2-BW shall not exceed 3.8 MMBTU per hour on a fuel heat input basis.[2] **(R 336.1205(1)(a) & (b), R 336.1225, R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j))**

2. The permittee shall install, calibrate, maintain and operate, in a satisfactory manner, a device to monitor and record the hourly and monthly natural gas usage rate for each unit in FG-FUELHTRS-BW.[2] **(R 336.1205(1)(a) & (b), R 336.1224, R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j), 40 CFR 60.48c(g))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. Within 180 days after commencement of initial startup, the permittee shall verify PM emission rates, as an emission factor and pph, from each unit in FG-FUELHTRS-BW by testing at the owner's expense, in accordance with Department requirements. The permittee shall complete the required testing once every five years, thereafter, unless an alternate testing schedule is approved by the District Supervisor. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A and Part 10 of the Michigan Air Pollution Control Rules. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD approved Test Protocol and must meet the requirements of the federal Clean Air Act, all applicable state and federal rules and regulations, and be within the authority of the AQD to make the change. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.[2] **(R 336.1331(1)(c), R 336.2001, R 336.2003, R 336.2004, R 336.2810)**

2. The permittee shall verify PM emission rates from FG-FUELHTRS-BW by testing at the owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**

3. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor not less than 30 days before testing of the time and place before performance tests are conducted. **(R 336.1213(3))**

See Appendix 5-3 BW

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 30th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.[2] **(R 336.1205(1)(a) & (b), R 336.1224, R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j))**

2. The permittee shall keep hourly and monthly natural gas usage records, in a format acceptable to the AQD District Supervisor, indicating the amount of natural gas used, in cubic feet, on a clock hour basis for each unit in FG-FUELHTRS-BW, and shall calculate and keep monthly natural gas usage records, in a format acceptable to the AQD District Supervisor, indicating the amount of natural gas used, in cubic feet, on a calendar month basis for each unit in FG-FUELHTRS-BW and a 12-month rolling time period basis for FG-FUELHTRS-BW. The permittee shall keep all records on file at the facility and make them available to the Department upon request.[2] **(R 336.1205(1)(a) & (b), R 336.1224, R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j), 40 CFR 60.48c(g))**

3. The permittee shall maintain monthly records of the heating value content of the natural gas based on information from the natural gas supplier. The permittee shall make records available to the Department upon request.[2] **(R336.1205(1)(a), 40 CFR 60.40c(a))**

4. The permittee shall calculate and keep records of hourly heat input (MMBTU/hr) for each heater in FG-FUELHTRS-BW based on the monthly heat value of natural gas and the hourly gas usage to show compliance with SC IV.1. The permittee shall make records available to the Department upon request.[2] **(R 336.1205(1)(a) & (b), R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j))**

5. The permittee shall calculate and keep, in a satisfactory manner, records of hourly NO_X, CO, PM, PM10, PM2.5, and VOC mass emissions for each unit in FG-FUELHTRS-BW, as required by SC I.1 through SC 1.12. The permittee shall keep all records on file and make them available to the Department upon request. The calculations shall be performed using a method approved by the AQD District Supervisor.[2] **(R 336.1205(1)(a) & (b), R 336.1702(a), R 336.2803, R 336.2804, R 336.2810)**

6. The permittee shall calculate and keep, in a satisfactory manner, records of monthly and 12-month rolling total CO_2e mass emissions for FG-FUELHTRS-BW, as required by SC I.13. The permittee shall keep all records on file and make them available to the Department upon request. The calculations shall be performed according to Appendix 7-3 BW or an alternate method approved by the District Supervisor.[2] **(R 336.1205(1)(a) & (b), R 336.2810, 40 CFR 52.21(j))**

7. The permittee shall maintain records of all information necessary for all notifications and reports as specified in these special conditions as well as that information necessary to demonstrate compliance with the emission limits of this permit. This information shall include, but shall not be limited to the following:
   a. Compliance tests and any testing required under the special conditions of this permit.
   b. Monitoring data.
   c. Verification of heat input capacity required to show compliance with SC IV.1.
   d. Identification, type and the amounts of fuel combusted in each unit in FG-FUELHTRS-BW on a calendar month basis.
   e. Sulfur content of the fuel combusted in each unit in FG-FUELHTRS-BW.
   f. All records required by 40 CFR 60.7 and 40 CFR 60.48c.
   g. All calculations or documents necessary to show compliance with the limits contained in this permit.

   All of the above information shall be stored in a format acceptable to the Air Quality Division and shall be consistent with the requirements of 40 CFR 60.7. The permittee shall keep all records on file and make them available to the Department upon request.[2] **(R 336.1205(1)(a) & (b), R 336.1224, R 336.1225, R 336.1331(1)(c), R 336.1702(a), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j), 40 CFR 60.7, 40 CFR Part 60 Subpart Dc)**

See Appendix 7-3 BW

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

4. The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. **(R 336.1213(3)(c), R 336.2001(5))**

5. The permittee shall provide written notification of the date construction commences and actual startup for EU-FUELHTR1-BW in accordance with 40 CFR 60.7 and 40 CFR 60.48c. The notification shall include the design heat input, an identification of the fuels to be combusted, and the annual capacity factor. The permittee shall submit this notification to the AQD District Supervisor within the time frames specified in 40 CFR 60.7.[2] **(40 CFR 60.7, 40 CFR 60.48c)**

See Appendix 8-3 BW

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. S-VFUELHTR1-BW	30[2]	16[2]	**R 336.1225, R 336.2803, R 336.2804**

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
2. SV-FUELHTR2-BW	18[2]	11[2]	**R 336.1225, R 336.2803, R 336.2804**

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60, Subparts A and Dc, as they apply to EU-FUELHTR1-BW.[2] **(40 CFR Part 60, Subparts A & Dc)**

Footnotes:
[1] This condition is state only enforceable and was established pursuant to Rule 201(1)(b).
[2] This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

FG-TANKS-BW
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Miscellaneous storage tanks.

Emission Units: EU-EMFUELTANK-BW, EU-CTLUBEOILTANKS-BW, EU-STLUBEOILTANKS-BW, EU-STHYDROOILTANK-BW, EU-STSEALOILTANK-BW, EU-FUELOILTANK-BW, EU-GCLUBEOILTNKS-BW, EU-BFPOILTANKS-BW, EU-DLNNH3TANKS-BW

POLLUTION CONTROL EQUIPMENT

Conservation vent valves for VOC control on EU-FUELOILTANK-BW.

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall install, maintain and operate in a satisfactory manner, conservation vent valves on FG-TANKS-BW.[2] **(R 336.1205, R 336.1224, R 336.1225, R 336.1702(a), R 336.1910, R 336.2810)**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

NA

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

See Appendix 8-3 BW

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:
[1] This condition is state only enforceable and was established pursuant to Rule 201(1)(b).
[2] This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

FG-SPACEHTRS-BW
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Natural gas-fired space heaters and air makeup units with a combined rating of 10 MMBTU/hr or less to provide building heating and ventilation.

Emission Unit: EU-SPACEHEATERS-BW

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. The permittee shall burn only pipeline quality natural gas in FG-SPACEHTRS-BW.[2] **(R 336.1205(1)(a) & (b), R 336.1224, R 336.1225, R 336.1702(a), R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The maximum combined design heat input capacity for FG-SPACEHTRS-BW shall not exceed 10 MMBTU per hour on a fuel heat input basis.[2] **(R 336.1205(1)(a) & (b), R 336.1225, R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(j))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall keep manufacturer documentation showing the maximum heat input for each space heater in FG-SPACEHTRS-BW.[2] **(R 336.1205(1)(a) & (b), R 336.1225, R 336.2803, R 336.2804, R 228.2810, 40 CFR 52.21(j))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

See Appendix 8-3 BW

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:
[1] This condition is state only enforceable and was established pursuant to Rule 201(1)(b).
[2] This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

FG-DDDDD-LG-BW
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Requirements for new boilers and process heater that are designed to burn gas 1 subcategory fuel with a heat input capacity of 10 MMBTU/hr or greater at major sources of HAP emissions per 40 CFR Part 63, Subpart DDDDD (Boiler MACT). Units designed to burn gas 1 subcategory fuels include boilers or process heaters that burn only natural gas, refinery gas, and/or Other Gas 1 fuels. Units that burn liquid fuel for testing or maintenance purposes for less than a total of 48 hours per year, or that burn liquid fuel during periods of curtailment or supply interruptions are included in this definition. EU-AUXBOILER-BW is natural gas-fired auxiliary boiler, rated at 99.9 MMBTU/hr, equipped with low NOx burners (LNB), flue gas recirculation (FGR) and a continuous oxygen trim system. EU-FUELHTR1-BW is a natural gas-fired 12.12 MMBTU/hr heat input HP fuel heater that does not have a continuous oxygen trim system.

Emission Units: EU-AUXBOILER-BW, EU-FUELHTR1-BW.

POLLUTION CONTROL EQUIPMENT

EU-AUXBOILER-BW: Low NO_X burners, flue gas recirculation for NO_X control, and continuous oxygen trim system.
EU-FUELHTR1-BW: NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee must, for EU-FUELHTR1-BW, complete an initial tune-up as specified in SC III.3 by no later than 13 months after start up. **(40 CFR 63.7510(g))**

2. The permittee must complete an initial tune-up for EU-AUXBOILER-BW, which has a continuous oxygen trim system, as specified in SC III.3 by no later than 61 months after startup. **(40 CFR 63.7510(g))**

3. The permittee shall conduct an annual tune up of each boiler or process heater in FG-DDDDD-LG-BW that does not have a continuous oxygen trim system (EU-FUELHTR1-BW), as specified below. The annual tune-up shall be no more than 13 months after the previous tune-up. **(40 CFR 63.7500(a)(1), 40 CFR 63.7515(d), Table 3 of 40 CFR Part 63, Subpart DDDDD)**

   a. As applicable, inspect the burner, and clean or replace any components of the burner as necessary. The permittee may perform the burner inspection any time prior to the tune-up or delay the burner inspection until the next scheduled unit shutdown. Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment. **(40 CFR 63.7540(a)(10)(i))**

   b. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. **(40 CFR 63.7540(a)(10)(ii))**

c. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the permittee may delay the inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection. **(40 CFR 63.7540(a)(10)(iii))**

d. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_X requirement to which the unit is subject. **(40 CFR 63.7540(a)(10)(iv))**

e. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. **(40 CFR 63.7540(a)(10)(v))**

4. If the unit is not operated on the required date for the tune-up, the tune-up must be conducted within 30 calendar days of startup. **(40 CFR 63.7540(a)(13))**

5. The permittee shall conduct a tune-up of each emission unit in FG-DDDDD-LG-BW that has an oxygen trim system installed (EU-AUXBOILER-BW) every 5 years as specified in 40 CFR 63.7540(a)(10)(i) through (vi) (SC III.3.a through e. of FG-DDDDD-LG-BW). If an oxygen trim system is utilized on a unit without emission standards to reduce the tune-up frequency to once every 5 years, set the oxygen level no lower than the oxygen concentration measured during the most recent tune-up. **(40 CFR 63.7515(d), 40 CFR 63.7540(a)(12), Table 3 of 40 CFR Part 63, Subpart DDDDD)**

   a. Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up. **(40 CFR 63.7515(d))**

   b. The permittee may delay the burner inspection specified in 40 CFR 63.7540(a)(10)(i) until the next scheduled or unscheduled unit shutdown, but each burner must be inspected at least once every 72 months. **(40 CFR 63.7540(a)(12))**

   c. If the unit is not operating on the required date for the tune-up, the tune-up must be conducted within 30 calendar days of startup. **(40 CFR 63.7540(a)(13))**

6. At all times, the permittee must operate and maintain each new gas 1 boiler or process heater, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. **(40 CFR 63.7500(a)(3))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee must keep a copy of each notification and report that the permittee submitted to comply with 40 CFR Part 63, Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or annual compliance report that the permittee submitted. **(40 CFR 63.7555(a)(1))**

2. If the permittee uses an alternative fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart under 40 CFR Part 63, Other Gas 1 fuel, or gaseous fuel subject to another subpart of 40 CFR Part 60

or Part 61, or Part 65, the permittee must keep records of the total hours per calendar year that alternative fuel is burned and the total hours per calendar year that the unit operated during periods of gas curtailment or gas supply emergencies. **(40 CFR 63.7555(h))**

3. The permittee shall maintain on-site and submit, if requested by the AQD, a report containing the information listed below.
   a. The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater. **(40 CFR 63.7540(a)(10)(vi)(A))**
   b. A description of any corrective actions taken as a part of the tune-up. **(40 CFR 63.7540(a)(10)(vi)(B))**
   c. The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit. **(40 CFR 63.7540(a)(10)(vi)(C))**

4. The permittee's records must be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1). **(40 CFR 63.7560(a))**

5. As specified in 40 CFR 63.10(b)(1), the permittee must keep each record for 5-years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. **(40 CFR 63.7560(b))**

6. The permittee must keep each record on site, or they must be accessible from on-site (for example, through a computer network), for at least 2-years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee can keep the records off site for the remaining 3-years. **(40 CFR 63.7560(c))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

4. If the permittee intends to use a fuel other than natural gas, refinery gas, gaseous fuel subject to another subpart of 40 CFR Part 63, Part 60, Part 61, or Part 65, or Other Gas 1 fuel to fire the affected unit during a period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575, the permittee must submit a notification of alternative fuel use within 48 hours of the declaration of each period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575. The notification must include the information as listed below.
   a. Company name and address. **(40 CFR 63.7545(f)(1))**
   b. Identification of the affected unit. **(40 CFR 63.7545(f)(2))**
   c. Reason the permittee is unable to use natural gas or equivalent fuel, including the date when the natural gas curtailment was declared, or the natural gas supply interruption began. **(40 CFR 63.7545(f)(3))**
   d. Type of alternative fuel that the permittee intends to use. **(40 CFR 63.7545(f)(4))**
   e. Dates when the alternative fuel use is expected to begin and end. **(40 CFR 63.7545(f)(5))**

5. The permittee must submit boiler and process heater tune-up compliance reports to the appropriate AQD District Office. The reports must be postmarked or submitted by March 15 and must cover the period of January 1 through December 31 of the reporting year. For new units, the first report should cover the period of startup to December 31 of the reporting year. Compliance reports must also be submitted to EPA using the Compliance and Emissions Data Reporting Interface (CEDRI) which is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). **(40 CFR 63.7550(b))**

6. The permittee must submit a compliance report containing the following information.
   a. Company and Facility name and address. **(40 CFR 63.7550(c)(5)(i))**
   b. Process unit information, emissions limitations, and operating parameter limitations. **(40 CFR 63.7550(c)(5)(ii))**
   c. Date of report and beginning and ending dates of the reporting period. **(40 CFR 63.7550(c)(5)(iii))**
   d. Include the date of the most recent tune-up for each unit. Include the date of the most recent burner inspection if it was not done annually and was delayed until the next scheduled or unscheduled unit shutdown. **(40 CFR 63.7550(c)(5)(xiv))**
   e. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. **(40 CFR 63.7550(c)(5)(xvii))**

7. The permittee must submit all reports required by Table 9 of this subpart electronically using CEDRI that is accessed through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, submit the report to the EPA Region V at the appropriate address listed in 40 CFR 63.13 and to the appropriate AQD District Office. **(40 CFR 63.7550(h)(3))**

See Appendix 8-3 BW

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emissions Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters as specified in 40 CFR Part 63, Subparts A and DDDDD. **(40 CFR Part 63, Subparts A and DDDDD)**

Footnotes:
[1] This condition is state only enforceable and was established pursuant to Rule 201(1)(b).
[2] This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

FG-DDDDD-SM-BW
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Requirements for a new boiler and process heater with a heat input capacity of <10 MMBTU/hr. for major sources of HAP emissions per 40 CFR Part 63, Subpart DDDDD (Boiler MACT). This boiler and process heater is designed to burn natural gas.

Emission Unit:.

Equal to or less than 5 MMBTU/hr. and only burns gaseous or light liquid fuels	EU-FUELHTR2-BW - 2.39 MMBTU/hr. heat input, without a continuous oxygen trim system.
Greater than 5 MMBTU/hr and less than 10 MMBTU/hr that burns gaseous or light liquid fuels or any unit that is less than 10 MMBTU/hr and burns any heavy liquid or solid fuels	NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee must, for boilers or process heaters installed after June 4, 2010 with a heat input capacity of less than or equal to 5 MMBTU/hr, complete an initial tune-up as specified in SC III.3 by no later than 61 months after startup. **(40 CFR 63.7510(g))**

2. The permittee must, for boilers or process heaters with a heat input capacity of less than or equal to 5 MMBTU/hr, conduct a 5-year tune-up according to 40 CFR 63.7540(a)(12). Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up. The burner inspection may be delayed until the next scheduled or unscheduled unit shutdown, but each burner must be inspected at least once every 72 months. **(40 CFR 63.7500(d) or (e), 40 CFR 63.7515(d), 40 CFR 63.7540(a)(12), 40 CFR Part 63, Subpart DDDDD, Table 3.1)**

3. The permittee must conduct a tune-up of each boiler or process heater as specified in the following: **(40 CFR 63.7540(a)(11) or (12))**

   a. As applicable, inspect the burner and clean or replace any components of the burner as necessary. The permittee may perform the burner inspection any time prior to the tune-up or may delay the burner inspection until the next scheduled unit shutdown. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment. **(40 CFR 63.7540(a)(10)(i))**

b. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. **(40 CFR 63.7540(a)(10)(ii))**

c. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly. The permittee may delay the inspection until the next scheduled unit shutdown. **(40 CFR 63.7540(a)(10)(iii))**

d. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_X requirement to which the unit is subject. **(40 CFR 63.7540(a)(10)(iv))**

e. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. **(40 CFR 63.7540(a)(10)(v))**

4. If the unit is not operated on the required date for the tune-up, the tune-up must be conducted within 30 calendar days of startup. **(40 CFR 63.7540(a)(13))**

5. At all times, the permittee must operate and maintain each new small boiler or process heater, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. **(40 CFR 63.7500(a)(3))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee must keep a copy of each notification and report submitted to comply with 40 CFR Part 63, Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or 2 or 5 year compliance report or one-time energy assessment, as applicable, that the permittee submitted. **(40 CFR 63.7555(a)(1))**

2. The permittee must keep the records in a form suitable and readily available for expeditious review. **(40 CFR 63.7560(a))**

3. The permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. **(40 CFR 63.7560(b))**

4. The permittee must keep each record on site, or they must be accessible from on-site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee can keep the records off site for the remaining 3 years. **(40 CFR 63.7560(c))**

5. The permittee shall maintain on-site, and submit if requested by the AQD, the most recent 5-year periodic report containing the following information:

   a. The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater. **(40 CFR 63.7540(a)(10)(vi)(A))**

   b. A description of any corrective actions taken as a part of the tune-up. **(40 CFR 63.7540(a)(10)(vi)(B))**

   c. The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit. **(40 CFR 63.7540(a)(10)(vi)(C))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

4. The permittee must submit boiler or process heater tune-up compliance reports to the appropriate AQD District Office and must be postmarked or submitted by March 15th of the year following the applicable 5-year period starting from January 1 of the year following the previous tune-up to December 31 (of the latest tune-up year). Compliance reports must also be submitted to EPA using the Compliance and Emissions Data Reporting Interface (CEDRI) which is accessed through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). If the reporting form is not available in CEDRI at the time the compliance report is due, a hardcopy of the compliance report shall be submitted to EPA Region 5. **(40 CFR 63.7550(b)**, **40 CFR 63.7550(h)(3))**

5. The permittee must include the following information in the compliance report. **(40 CFR 63.7550(c)(1))**

   a. Company and Facility name and address. **(40 CFR 63.7550(c)(5)(i))**

   b. Process unit information, emissions limitations, and operating parameter limitations. **(40 CFR 63.7550(c)(5)(ii))**

   c. Date of report and beginning and ending dates of the reporting period. **(40 CFR 63.7550(c)(5)(iii))**

   d. Include the date of the most recent tune-up for each unit. Include the date of the most recent burner inspection if it was not done biennially or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown. **(40 CFR 63.7550(c)(5)(xiv))**

   e. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report. **(40 CFR 63.7550(c)(5)(xvii))**

See Appendix 8-3 BW

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable requirements of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subparts A and DDDDD for Industrial, Commercial, and Institutional Boilers and Process Heaters. **(40 CFR Part 63, Subparts A and DDDDD)**

Footnotes:
[1] This condition is state only enforceable and was established pursuant to Rule 201(1)(b).
[2] This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

FG-MACTYYYY-BW
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

40 CFR Part 63, Subpart YYYY requirements for two 3,658 MMBTU/hr natural gas-fired combustion turbine generators (CTGs) coupled with heat recovery steam generators (HRSGs). The HRSGs are equipped with natural gas-fired duct burners rated at 800 MMBTU/hr to provide heat for additional steam production. The HRSGs are not capable of operating independently from the CTG.

Emission Units: EU-CTGHRSG1-BW, EU-CTGHRSG2-BW

POLLUTION CONTROL EQUIPMENT

The CTGs/HRSGs are equipped with a combined oxidation catalyst for the control of CO and VOCs, and selective catalytic reduction (SCR) with dry low NO_X burners for the control of NO_X.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Formaldehyde	91 ppbvd or less at 15-percent O_2	Hourly / at all times except during turbine startup*	EU-CTGHRSG1-BW EU-CTGHRSG2-BW	SC V.1, SC VI.2	**40 CFR 63.6100 40 CFR Part 63, Subpart YYYY, Table 1**

* Startup begins at the first firing of fuel in the stationary combustion turbine. For simple cycle turbines, startup ends when the stationary combustion turbine has reached stable operation or after 1 hour, whichever is less. For combined cycle turbines, startup ends when the stationary combustion turbine has reached stable operation or after 3 hours, whichever is less. Turbines in combined cycle configurations that are operating as simple cycle turbines must meet the startup requirements for simple cycle turbines while operating as simple cycle turbines.

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee must operate and maintain each stationary combustion turbine, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved. Determination of whether a source is operating in compliance with operation and maintenance requirements will be based on information available to the AQD which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. **(40 CFR 63.6105(c))**

2. The permittee must develop and implement a continuous monitoring system (CMS) quality control program according to 40 CFR 63.8(d)(1) through (2). Each quality control program shall include, at a minimum, a written protocol that describes procedures for each of the following operations:

   a. Initial and any subsequent calibration of the CMS; **(40 CFR 63.8(d)(2)(i))**

b. Determination and adjustment of the calibration drift of the CMS; **(40 CFR 63.8(d)(2)(ii))**

c. Preventive maintenance of the CMS, including spare parts inventory; **(40 CFR 63.8(d)(2)(iii))**

d. Data recording, calculations, and reporting; **(40 CFR 63.8(d)(2)(iv))**

e. Accuracy audit procedures, including sampling and analysis methods; and **(40 CFR 63.8(d)(2)(v))**

f. Program of corrective action for a malfunctioning CMS. **(40 CFR 63.8(d)(2)(vi))**

The permittee must keep these written procedures on record for the life of the affected source or until the affected source is no longer subject to the provisions of this part, to be made available for inspection, upon request, by the AQD. If the performance evaluation plan is revised, the permittee shall keep previous (i.e., superseded) versions of the performance evaluation plan on record to be made available for inspection, upon request, by the AQD. **(40 CFR 63.6125(e))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee using an oxidation catalyst must continuously monitor and maintain the 4-hour rolling average of the catalyst inlet temperature within the range suggested by the catalyst manufacturer. The permittee is not required to use the catalyst inlet temperature data that is recorded during engine startup in the calculations of the 4-hour rolling average catalyst inlet temperature. **(40 CFR 63.6100, 40 CFR 63.6125(a), 40 CFR 63.6140, 40 CFR Part 63, Subpart YYYY, Tables 2.1 and 5.1)**

2. Except for monitor malfunctions, associated repairs, and required quality assurance or quality control activities (including, as applicable, calibration checks and required zero and span adjustments of the monitoring system), the permittee must conduct all parametric monitoring at all times the stationary combustion turbine is operating. Do not use data recorded during monitor malfunctions, associated repairs, and required quality assurance or quality control activities for meeting the requirements of 40 CFR Part 63, Subpart YYYY, including data averages and calculations. The permittee must use all the data collected during all other periods in assessing the performance of the control device or in assessing emissions from each stationary combustion turbine. **(40 CFR 63.6135(a) and (b))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall verify formaldehyde emission rates from EU-CTGHRSG1-BW and EU-CTGHRSG2-BW by testing at owner's expense, in accordance with the Department requirements. Testing shall be performed using approved EPA Methods listed in:

Pollutant	Test Method Reference
Formaldehyde	40 CFR Part 63, Subpart YYYY, Table 3

Testing must be conducted within 10 percent of 100-percent load. The permittee shall conduct three separate test runs for each performance test, and each test run must last at least 1 hour. Performance tests shall be conducted under such conditions based on representative performance of the affected source for the period being tested. Representative conditions exclude periods of startup and shutdown. The owner or operator may not conduct performance tests during periods of malfunction. The permittee must record the process information that is necessary to document operating conditions during the test and include in such record an explanation to support that such conditions represent normal operation. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004, 40 CFR 63.6120(a), (c), and (d), 40 CFR Part 63, Subpart YYYY, Table 3)**

2. The permittee shall verify the formaldehyde emission rate from EU-CTGHRSG1-BW and EU-CTGHRSG2-BW on an annual basis. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004, 40 CFR Part 63, Subpart YYYY, Table 3.a)**

3. The permittee must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor. **(R 336.1213(3), 40 CFR 63.9(e))**

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. For each combustion turbine in FG-MACTYYYY-BW, the permittee must keep the records described as follows: **(40 CFR 63.6155(a))**
   a. A copy of each notification and report submitted to comply with 40 CFR Part 63, Subpart YYYY, including all documentation supporting any Initial Notification or Notification of Compliance Status that was submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv). **(40 CFR 63.6155(a)(1))**
   b. Records of performance tests and performance evaluations as required in 40 CFR 63.10(b)(2)(viii). **(40 CFR 63.6155(a)(2))**
   c. Records of all maintenance on the air pollution control equipment as required in 40 CFR 63.10(b)(2)(iii). **(40 CFR 63.6155(a)(5))**
   d. Records of the date, time, and duration of each startup period, recording the periods when the affected source was subject to the standard applicable to startup. **(40 CFR 63.6155(a)(6))**
   e. Record the number of deviations. For each deviation, record the date, time, cause, and duration of the deviation. **(40 CFR 63.6155(a)(7)(i))**
   f. For each deviation, record and retain a list of the affected sources or equipment, an estimate of the quantity of each regulated pollutant emitted over any emission limit and a description of the method used to estimate the emissions. **(40 CFR 63.6155(a)(7)(ii))**
   g. Record actions taken to minimize emissions in accordance with 40 CFR 63.6105(c) (SC III.1), and any corrective actions taken to return the affected unit to its normal or usual manner of operation. **(40 CFR 63.6155(a)(7)(iii))**

2. For each combustion turbine in FG-MACTYYYY-BW, the permittee must keep records to demonstrate continuous compliance with the operating limitations required in Table 5 of 40 CFR Part 63, Subpart YYYY as follows: **(40 CFR 63.6155(c))**
   a. Monitor and record the catalyst inlet temperature and;
   b. Reduce these data to 4-hour rolling averages; **(40 CFR Part 63, Subpart YYYY, Table 5.1)**
   c. Records demonstrating that maintaining the 4-hour rolling average of the inlet temperature within the range suggested by the catalyst manufacturer. **(40 CFR Part 63, Subpart YYYY, Table 5.1)**

3. The permittee must maintain all applicable records in such a manner that can be readily accessed and are suitable for inspection according to 40 CFR 63.10(b)(1). **(40 CFR 63.6160(a))**

4. As specified in 40 CFR 63.10(b)(1), the permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. **(40 CFR 63.6160(b))**

5. The permittee must retain records of the most recent 2 years on site or records must be accessible on site. Records of the remaining 3 years may be retained off site. **(40 CFR 63.6160(c))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

4. For each performance test required to demonstrate compliance with the emission limitation for formaldehyde, the permittee must submit the Notification of Compliance Status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test. The permittee shall submit any performance test reports to the AQD Technical Programs Unit and the appropriate District Office, in a format approved by the AQD. **(R 336.1213(3)(c), R 336.2001(5), 40 CFR 63.9(h)(2)(ii), 40 CFR 63.6145(f)))**

5. The permittee must submit a semiannual compliance report according to Table 6 of 40 CFR Part 63, Subpart YYYY to the appropriate AQD District Office per SC VII.2. The semiannual compliance report must contain the information described in 40 CFR 63.6150(a)(1) through (5) and the excess emissions and monitoring system performance reports as follows: **(40 CFR 63.6150(a))**

   a. Company name and address. **(40 CFR 63.6150(a)(1))**

   b Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report. **(40 CFR 63.6150(a)(2))**

   c. Date of report and beginning and ending dates of the reporting period. **(40 CFR 63.6150(a)(3))**

   d. Report each deviation as follows:

      i. Report the number of deviations. For each instance, report the start date, start time, duration, and cause of each deviation, and the corrective action taken. **(40 CFR 63.6150(a)(5)(i))**

      ii. For each deviation, the report must include a list of the affected sources or equipment, an estimate of the quantity of each regulated pollutant emitted over any emission limit, a description of the method used to estimate the emissions. **(40 CFR 63.6150(a)(5)(ii))**

      iii. Information on the number, duration, and cause for monitor downtime incidents (including unknown cause, if applicable, other than downtime associated with zero and span and other daily calibration checks), as applicable, and the corrective action taken. **(40 CFR 63.6150(a)(5)(iii))**

      iv. Report the total operating time of the affected source during the reporting period. **(40 CFR 63.6150(a)(5)(iv))**

6. The permittee must submit the following to the USEPA via the Compliance and Emissions Data Reporting Interface (CEDRI):

   a. Within 60 days after the date of completing each performance test required by 40 CFR Part 63, Subpart YYYY, the permittee must submit the results of the performance test (as specified in 40 CFR 63.6145(f)) following the procedures specified: **(40 CFR 63.6150(f))**

      i. For data collected using test methods supported by the USEPA's Electronic Reporting Tool (ERT) as listed on the USEPA's ERT website (https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert), submit the results of the performance test via CEDRI, which can be accessed through the USEPA's Central Data Exchange (CDX) (https://cdx.epa.gov/). The data must be submitted in a file format generated through the use of the USEPA's ERT. Alternatively, submit an electronic file consistent with the extensible markup language (XML) schema listed on the USEPA's ERT website. **(40 CFR 63.6150(f)(1))**

      ii. For data collected using test methods that are not supported by the USEPA's ERT as listed on the EPA's ERT website, the results of the performance test must be included as an attachment in the ERT or an alternate electronic file consistent with the XML schema listed on the USEPA's ERT website. Submit the ERT generated package or alternative file to the USEPA via CEDRI. **(40 CFR 63.6150(f)(2))**

b. Submit reports required in Table 6 of 40 CFR Part 63, Subpart YYYY to the USEPA via CEDRI, which can be accessed through the USEPA's CDX (https://cdx.epa.gov/). The permittee must use the appropriate electronic report template on the CEDRI website (https://www.epa.gov/electronic-reporting-air-emissions/compliance-and-emissions-data-reporting-interface-cedri). The date report templates become available will be listed on the CEDRI website. The report must be submitted by the deadline regardless of the method in which the report is submitted. **(40 CFR 63.6150(g))**

See Appendix 8-3 BW

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable requirements of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subparts A and YYYY for Stationary Combustion Turbines. **(40 CFR Part 63, Subparts A and YYYY)**

Footnotes:
[1] This condition is state only enforceable and was established pursuant to Rule 201(1)(b).
[2] This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

FG-PROJECT-BW
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

All equipment associated with the natural gas combined cycle power plant.

Emission Units: EU-CTGHRSG1-BW, EU-CTGHRSG2-BW, EU-AUXBOILER-BW, EU-FUELHTR1-BW, EU-FUELHTR2-BW, EU-EMENGINE-BW, EU-FPENGINE-BW, EU-CTLUBEOILTANKS-BW, EU-STLUBEOILTANKS-BW, EU-STHYDROOILTANK-BW, EU-STSEALOILTANK-BW, EU-FUELOILTANK-BW, EU-GCLUBEOILTNKS-BW, EU-BFPOILTANKS-BW, EU-EMFUELTANK-BW, EU-DLNNH3TANKS-BW, EU-SPACEHEATERS-BW, EU-COOLINGTOWER-BW, EU-COLDCLEANER-BW.

POLLUTION CONTROL EQUIPMENT

See each emission unit.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. SO_2	39.42 tpy[2]	12 month rolling time period as determined at the end of each calendar month	FG-PROJECT-BW	SC VI.1 SC VI.2 SC VI.3 SC VI.4 SC VI.5 SC VI.6	**R 336.1205(1)(a) & (b)** **R 336.2902(2)(d)**

II. MATERIAL LIMIT(S)

1. The permittee shall only burn pipeline natural gas with a sulfur content of 0.34 grains per 100 scf or less on an annual basis in any unit which combusts natural gas in FG-PROJECT-BW.[2] **(R 336.1205(1)(a) & (b), R 336.2902(2)(d))**

2. The permittee shall burn only diesel fuel in FG-PROJECT-BW with the maximum sulfur content of 15 ppm (0.0015 percent) by weight for any emission unit which combusts diesel fuel.[2] **(R 336.1205(1)(a) & (b), R 336.2902(2)(d))**

3. The natural gas usage for FG-PROJECT-BW shall not exceed 81,158 million cubic feet per year on a 12-month rolling time period basis as determined at the end of each calendar month.[2] **(R 336.1205(1)(a) & (b), R 336.2902(2)(d))**

4. The diesel fuel usage for FG-PROJECT-BW shall not exceed 35,731 gallons per year on a 12-month rolling time period basis as determined at the end of each calendar month.[2] **(R 336.1205(1)(a) & (b), R 336.2902(2)(d))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall monitor the sulfur content in the natural gas at a minimum of once per month. Monitoring will be done using fuel sample test data using ASTM standards, or an alternative method approved by the AQD District Supervisor. Sulfur content monitoring will be used to determine compliance with SC I.1. and II.1.[2] **(R 336.1205(1)(a) & (b))**

2. The permittee shall monitor the sulfur content in the natural gas using ASTM Standard D-6667, ASTM Standard D-4468, or one of the ASTM Standards authorized by 40 CFR Part 60, Subpart KKKK. **(R 336.1213(3))**

See Appendix 5-3 BW

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1213(3)(b)(ii))**

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 30th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.[2] **(R 336.1205(1)(a) & (b), R 336.2902(2)(d))**

2. The permittee shall keep, in a satisfactory manner, records indicating the monthly sulfur content of the natural gas to meet SC II.1 for FG-PROJECT-BW on file at the facility and make them available to the Department upon request.[2] **(R 336.1205(1)(a) & (b), R 336.2902(2)(d))**

3. The permittee shall keep, in a satisfactory manner, fuel supplier certification records or fuel sample test data for each delivery of diesel fuel oil combusted in FG-PROJECT-BW, to meet SC II.2. The certification or test data shall include the name of the oil supplier or laboratory and the sulfur content of the fuel oil.[2] **(R 336.1205(1)(a) & (b), R 336.2902(2)(d))**

4. The permittee shall calculate and keep, in a satisfactory manner records of monthly and 12-month rolling total SO_2 mass (tons) emissions for FG-PROJECT-BW. The calculations shall be performed using the most recent natural gas sulfur content sampling results as specified in FG-PROJECT-BW, SC V.1 using a calculation method as approved by the AQD District Supervisor. All records and calculations shall be kept on file and made available to the Department upon request.[2] **(R 336.1205(1)(a) & (b), R 336.2902(2)(d))**

5. The permittee shall monitor, record, and keep, in a satisfactory manner, the natural gas usage for FG-PROJECT-BW on a monthly basis. The permittee shall calculate and keep, in a satisfactory manner, records of the cubic feet of natural gas fired in FG-PROJECT-BW on a 12-month rolling basis.[2] **(R 336.1205(1)(a) & (b), R 336.2902(2)(d))**

6. The permittee shall monitor, record, and keep, in a satisfactory manner, the diesel fuel usage for FG-PROJECT-BW on a monthly basis. The permittee shall calculate and keep, in a satisfactory manner, records of the gallons of diesel fuel fired in FG-PROJECT-BW on a 12-month rolling basis.[2] **(R 336.1205(1)(a) & (b), R 336.2902(2)(d))**

7. The permittee shall calculate the SO_2 emissions on a monthly basis according to Appendix 7-3 BW in a format acceptable to the AQD District Supervisor by the 30th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1213(3))**

See Appendix 7-3 BW

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**

2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**

3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

4. The permittee shall report to AQD, the natural gas testing data and SO_2 emissions calculations used for each month, including identification of the test method(s) used. The reports shall be submitted within the semiannual compliance reports required by SC VII.2. **(R 336.1213(3))**

See Appendix 8-3 BW

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

Footnotes:
[1] This condition is state only enforceable and was established pursuant to Rule 201(1)(b).
[2] This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

E. NON-APPLICABLE REQUIREMENTS

At the time of the ROP issuance, the AQD has determined that no non-applicable requirements have been identified for incorporation into the permit shield provision set forth in the General Conditions in Part A pursuant to Rule 213(6)(a)(ii).

APPENDICES

Appendix 1-3 BW. Acronyms and Abbreviations

Common Acronyms		Pollutant / Measurement Abbreviations	
AQD	Air Quality Division	acfm	Actual cubic feet per minute
BACT	Best Available Control Technology	BTU	British Thermal Unit
CAA	Clean Air Act	°C	Degrees Celsius
CAM	Compliance Assurance Monitoring	CO	Carbon Monoxide
CEM	Continuous Emission Monitoring	CO_2e	Carbon Dioxide Equivalent
CEMS	Continuous Emission Monitoring System	dscf	Dry standard cubic foot
CFR	Code of Federal Regulations	dscm	Dry standard cubic meter
COM	Continuous Opacity Monitoring	°F	Degrees Fahrenheit
Department/ department	Michigan Department of Environment, Great Lakes, and Energy	gr	Grains
		HAP	Hazardous Air Pollutant
EGLE	Michigan Department of Environment, Great Lakes, and Energy	Hg	Mercury
		hr	Hour
EU	Emission Unit	HP	Horsepower
FG	Flexible Group	H_2S	Hydrogen Sulfide
GACS	Gallons of Applied Coating Solids	kW	Kilowatt
GC	General Condition	lb	Pound
GHGs	Greenhouse Gases	m	Meter
HVLP	High Volume Low Pressure*	mg	Milligram
ID	Identification	mm	Millimeter
IRSL	Initial Risk Screening Level	MM	Million
ITSL	Initial Threshold Screening Level	MW	Megawatts
LAER	Lowest Achievable Emission Rate	NMOC	Non-methane Organic Compounds
MACT	Maximum Achievable Control Technology	NO_x	Oxides of Nitrogen
MAERS	Michigan Air Emissions Reporting System	ng	Nanogram
MAP	Malfunction Abatement Plan	PM	Particulate Matter
MSDS	Material Safety Data Sheet	PM10	Particulate Matter equal to or less than 10 microns in diameter
NA	Not Applicable		
NAAQS	National Ambient Air Quality Standards	PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter
NESHAP	National Emission Standard for Hazardous Air Pollutants	pph	Pounds per hour
		ppm	Parts per million
NSPS	New Source Performance Standards	ppmv	Parts per million by volume
NSR	New Source Review	ppmw	Parts per million by weight
PS	Performance Specification	%	Percent
PSD	Prevention of Significant Deterioration	psia	Pounds per square inch absolute
PTE	Permanent Total Enclosure	psig	Pounds per square inch gauge
PTI	Permit to Install	scf	Standard cubic feet
RACT	Reasonable Available Control Technology	sec	Seconds
ROP	Renewable Operating Permit	SO_2	Sulfur Dioxide
SC	Special Condition	TAC	Toxic Air Contaminant
SCR	Selective Catalytic Reduction	Temp	Temperature
SDS	Safety Data Sheet	THC	Total Hydrocarbons
SNCR	Selective Non-Catalytic Reduction	tpy	Tons per year
SRN	State Registration Number	µg	Microgram
TEQ	Toxicity Equivalence Quotient	µm	Micrometer or Micron
USEPA/EPA	United States Environmental Protection Agency	VOC	Volatile Organic Compounds
		yr	Year
VE	Visible Emissions		

*For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 psig.

Appendix 2-3 BW. Schedule of Compliance

The permittee certified in the ROP application that this stationary source is in compliance with all applicable requirements and the permittee shall continue to comply with all terms and conditions of this ROP. A Schedule of Compliance is not required. **(R 336.1213(4)(a), R 336.1119(a)(ii))**

Appendix 3-3 BW. Monitoring Requirements

The following monitoring procedures, methods, or specifications are the details to the monitoring requirements identified and referenced in FG-CTGHRSG-BW.

Continuous Emission Monitoring System (CEMS) Requirements for FG-CTGHRSG-BW

1. Within 30 calendar days after commencement of initial start-up, the permittee shall submit two copies of a Monitoring Plan to the AQD, for review and approval. The Monitoring Plan shall include drawings or specifications showing proposed locations and descriptions of the required CEMS.

2. Within 150 calendar days after commencement of initial start-up, the permittee shall submit two copies of a complete test plan for the CEMS to the AQD for approval.

3. Within 180 calendar days after commencement of initial start-up, the permittee shall complete the installation and testing of the CEMS.

4. Within 60 days of completion of testing, the permittee shall submit to the AQD two copies of the final report demonstrating the CEMS complies with the requirements of the corresponding Performance Specifications (PS) in the following table:

Pollutant	Applicable PS
NO_x	2
O_2 & CO_2	3
CO	4

5. The span value shall be 2.0 times the lowest emission standard or as specified in the federal regulations.

6. The CEMS shall be installed, calibrated, maintained, and operated in accordance with the procedures set forth in 40 CFR 60.13 and the PS, listed in the table above, of Appendix B to 40 CFR Part 60.

7. Each calendar quarter, the permittee shall perform the Quality Assurance Procedures of the CEMS set forth in Appendix F of 40 CFR Part 60. Within 30 days following the end of each calendar quarter, the permittee shall submit the results to the AQD in the format of the data assessment report (Figure 1, Appendix F).

8. In accordance with 40 CFR 60.7(c) and (d), the permittee shall submit two copies of an excess emission report (EER) and summary report in an acceptable format to the AQD, within 30 days following the end of each calendar quarter. The Summary Report shall follow the format of Figure 1 in 40 CFR 60.7(d). The EER shall include the following information:
   a. A report of each exceedance above the limits specified in the conditions of this permit. This includes the date, time, magnitude, cause and corrective actions of all occurrences during the reporting period.
   b. A report of all periods of CEMS downtime and corrective action.
   c. A report of the total operating time of EU-CTGHRSG1-BW, or EU-CTGHRSG2-BW during the reporting period.

d. A report of any periods that the CEMS exceeds the instrument range.
e. If no exceedances or CEMS downtime occurred during the reporting period, the permittee shall report that fact.

The permittee shall keep all monitoring data on file for a period of at least five years and make them available to the AQD upon request.

Appendix 4-3 BW. Recordkeeping

Specific recordkeeping requirement formats and procedures are detailed in Part A or the appropriate Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Therefore, this appendix is not applicable.

Appendix 5-3 BW. Testing Procedures

Specific testing requirement plans, procedures, and averaging times are detailed in the appropriate Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Therefore, this appendix is not applicable.

Appendix 6-3 BW. Permits to Install

The following table lists any PTIs issued or ROP revision applications received since the effective date of the previously issued ROP No. MI-ROP-B2796-2015. Those ROP revision applications that are being issued concurrently with this ROP renewal are identified by an asterisk (*). Those revision applications not listed with an asterisk were processed prior to this renewal.

Source-Wide PTI No MI-PTI-B2796-2015c is being reissued as Source-Wide PTI No. MI-PTI-B2796-2024.

Permit to Install Number	ROP Revision Application Number/Issuance Date	Description of Change	Corresponding Emission Unit(s) or Flexible Group(s)
NA	202100198*	Incorporate additional Conditions from Sierra Club agreement in Section 3, Blue Water Energy Center, to be inserted in FG-PROJECT-BW, SC V.2 and SC VII.4 and Appendix 7-3 BW SO_2 calculations.	FG-PROJECT-BW, Appendix 7-3 BW SO_2 calculations
19-18B	201900198*	Incorporate PTI No. 19-18B for FG-COOLINGTWR-BW.	FG-COOLINGTWR-BW
19-18	201900198*	Incorporate PTI No. 19-18 for Blue Water Energy Center, a new natural gas combined cycle power plant.	EU-AUXBOILER-BW, EU-EMENGINE-BW, EU-FPENGINE-BW, EU-COLDCLEANER-BW, FG-CTGHRSG-BW, FG-COOLINGTWR-BW, FG-FUELHTRS-BW, FG-TANKS-BW, FG-SPACEHTRS-BW, FG-DDDDD-LG-BW, FG-DDDDD-SM-BW, FG-PROJECT-BW

Appendix 7-3 BW. Emission Calculations

The permittee shall use the following calculations in conjunction with monitoring, testing or recordkeeping data to determine compliance with the applicable requirements referenced in EU-AUXBOILER-BW, EU-EMENGINE-BW, EU-FPENGINE-BW and FG-PROJECT-BW.

a. CO_2e Emission Calculations

For EU-AUXBOILER-BW and FG-FUELHTRS-BW:

CO_2e emissions (tons/month) = [(Fuel Usage (MMscf/month) x Higher Heating Value (MMBTU/MMscf)) x (CO_2 EF (kg/MMBTU) x CO_2 GWP + CH_4 EF (kg/MMBTU) x CH_4 GWP + N_2O EF (kg/MMBTU) x N_2O GWP)] x 2.20462 (lb/kg) x 1/2000 (ton/lb)

Where:
Fuel Usage (MMscf/month) = monthly fuel usage data from fuel flow meter
Heat Content (MMBTU/MMscf) = standard value in AP-42 for natural gas or supplier data, if available
CO_2 EF (kg/MMBTU) = emission factors from 40 CFR Part 98, Subpart C, Table C-1 (January 1, 2014)
CH_4 EF (kg/MMBTU) = emission factors from 40 CFR Part 98, Subpart C, Table C-2 (January 1, 2014)
N_2O EF (kg/MMBTU) = emission factors from 40 CFR Part 98, Subpart C, Table C-2 (January 1, 2014)
CO_2 GWP = global warming potential from 40 CFR Part 98, Subpart A, Table A-1 (January 1, 2014)
CH_4 GWP = global warming potential from 40 CFR Part 98, Subpart A, Table A-1 (January 1, 2014)
N_2O GWP = global warming potential from 40 CFR Part 98, Subpart A, Table A-1 (January 1, 2014)

For EU-EMENGINE-BW and EU-FPENGINE-BW:

CO_2e emissions (tons/month) = [(Fuel Usage (gallons/month) x Higher Heating Value (MMBTU/gallons)) x (CO_2 EF (kg/MMBTU) x CO_2 GWP + CH_4 EF (kg/MMBTU) x CH_4 GWP + N_2O EF (kg/MMBTU) x N_2O GWP)] x 1/2000 (ton/lb)

Where:
Fuel Usage (gallons/month) = monthly fuel usage data
Heat Content (MMBTU/gallons) = standard value in AP-42 for diesel fuel or supplier data, if available
CO_2 EF (kg/MMBTU) = emission factors from 40 CFR Part 98, Subpart C, Table C-1 (January 1, 2014)
CH_4 EF (kg/MMBTU) = emission factors from 40 CFR Part 98, Subpart C, Table C-2 (January 1, 2014)
N_2O EF (kg/MMBTU) = emission factors from 40 CFR Part 98, Subpart C, Table C-2 (January 1, 2014)
CO_2 GWP = global warming potential from 40 CFR Part 98, Subpart A, Table A-1 (January 1, 2014)
CH_4 GWP = global warming potential from 40 CFR Part 98, Subpart A, Table A-1 (January 1, 2014)
N_2O GWP = global warming potential from 40 CFR Part 98, Subpart A, Table A-1 (January 1, 2014)

For EU-CTGHRSG1-BW and EU-CTGHRSG2-BW

If not utilizing a CO_2 CEMS:

CO_2 emissions (tons/month) = CO_2 EF (scf/MMBTU) x Fuel Usage (MMscf/month) x Higher Heating Value (MMBTU/MMscf) x CO_2 MW (lb/lb-mol) x CO_2 GWP / molar volume (scf/lb-mol) x 1/2000 (ton/lb)

Where:
CO_2 EF (scf/MMBTU) = carbon based F-factor for natural gas according to the methodology from equation G-4 of Appendix G to Part 75
Fuel Usage (MMscf/month) = monthly fuel usage data from fuel flow meter
Heat Content (MMBTU/MMscf) = standard value in AP-42 for natural gas or supplier data, if available

CO_2 MW (lb/lb-mol) = 44 [C = 6; O = 8; 6 + (8 x 2) = 22]
CO_2 GWP = global warming potential from 40 CFR Part 98, Subpart A, Table A-1 (January 1, 2014)
Molar volume (scf/lb-mol) = 385
CO_2e emissions (tons/month) = CO_2 emissions (tons/month) + [((Fuel Usage (MMscf/month) x Higher Heating Value (MMBTU/MMscf)) x (CH_4 EF (kg/MMBTU) x CH_4 GWP + N_2O EF (kg/MMBTU) x N_2O GWP)) x 2.20462 (lb/kg) x 1/2000 (ton/lb)]

Where:
Fuel Usage (MMscf/month) = monthly fuel usage data from fuel flow meter
Heat Content (MMBTU/MMscf) = standard value in AP-42 for natural gas or supplier data, if available
CH_4 EF (kg/MMBTU) = emission factors from 40 CFR Part 98, Subpart C, Table C-2 (January 1, 2014)
N_2O EF (kg/MMBTU) = emission factors from 40 CFR Part 98, Subpart C, Table C-2 (January 1, 2014)
CH_4 GWP = global warming potential from 40 CFR Part 98, Subpart A, Table A-1 (January 1, 2014)
N_2O GWP = global warming potential from 40 CFR Part 98, Subpart A, Table A-1 (January 1, 2014)

b. Sulfur Dioxide Emissions Calculations

The permittee shall use the following equation to calculate SO_2 emissions for FG-PROJECT-BW: **(R 336.1213(3))**

$$(m_{SO2})_i = (V_{NG})_i \times (C_S)_i \times \frac{MW_{SO2}}{MW_S}$$

$$(m_{SO2})_T = \sum_{i=1}^{i=12} (m_{SO2})_i$$

Where:
i = calendar month "i"
$(m_{SO2})i$ = mass of sulfur dioxide in calendar month "i"
$(V_{NG})i$ = volume of natural gas used in calendar month "i"
$(C_S)i$ = concentration of sulfur in natural gas (per testing at a minimum of once per month
MW_{SO2} = molecular weight of sulfur dioxide
MW_S = molecular weight of sulfur
$(m_{SO2})T$ = mass of sulfur dioxide for the calendar year

Appendix 8-3 BW. Reporting

A. Annual, Semiannual, and Deviation Certification Reporting

The permittee shall use EGLE, AQD, Report Certification form (EQP 5736) and EGLE, AQD, Deviation Report form (EQP 5737) for the annual, semiannual and deviation certification reporting referenced in the Reporting Section of the Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Alternative formats must meet the provisions of Rule 213(4)(c) and Rule 213(3)(c)(i), respectively, and be approved by the AQD District Supervisor.

B. Other Reporting

Specific reporting requirement formats and procedures are detailed in Part A or the appropriate Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Therefore, Part B of this appendix is not applicable.

Appendix 9-3 BW. Phase Two Acid Rain Permit

PHASE II ACID RAIN PERMIT
Permit No. MI-AR-62192-2024

Permittee	DTE Electric: Blue Water Energy Center
Address	4505 King Road, China Township, MI
SRN	B2796
Plant Code	62192
Issue Date	June 1, 2024
Effective	Issuance date of this facility's Renewable Operating Permit at the facility in accordance with 40 CFR 72.73.
Expiration	This permit shall expire when the facility's Renewable Operating Permit expires, in accordance with 40 CFR 72.73.
ROP No.	MI-ROP-B2796-2024

The Acid Rain Permit Contents

1. A statement of basis prepared by the Air Quality Division (AQD) containing:

   References to statutory and regulatory authorities, and with comments, notes, and justification that apply to the source in general;

2. Terms and conditions including:

   A table of sulfur dioxide allowances to be allocated during the term of the permit, if applicable, authorized by this permit during Phase II. Unless they are subject to Sections 405(g)(2) or (3) of the federal Clean Air Act, new units are not allocated allowances in 40 CFR Part 73 and must obtain allowances by other means (Section 403(e) of the federal Clean Air Act);

   Comments, notes and justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements; and,

   Any applicable nitrogen oxides compliance plan. Unless they are coal fired utility units regulated pursuant to Sections 404, 405, or 409 of the federal Clean Air Act, new units are not subject to the acid rain nitrogen oxides requirements (40 CFR 76.1(a)).

3. The permit application that this source submitted, as corrected by the AQD. The owners and operators of the source must comply with the standard requirements and special provisions set forth in the application.

Section 3 – Blue Water Energy Center

Statement of Basis

Statutory and Regulatory Authorities.

In accordance with the Natural Resources and Environmental Protection Act, 1994 PA 451 and Titles IV and V of the federal Clean Air Act, the Michigan Department of Environment, Great Lakes, and Energy, Air Quality Division (AQD), issues this permit pursuant to the provisions of R 336.1210 to R 336.1218, and R 336.1902(1)(p).

For further information contact:

Mr. Brian Carley
Environmental Quality Specialist
Michigan Department of Environment, Great Lakes, and Energy
Air Quality Division, Jackson District Office
State Office Building, 4th Floor
301 East Louis B. Glick Highway
Jackson, Michigan 49201-1556

Telephone: 517-416-4631
Facsimile: 517-780-7855

There are no comments, notes and/or justification that apply to the source in general for this section.

Section 3 – Blue Water Energy Center

Terms and Conditions:

Phase II Sulfur Dioxide Allowance Allocation and Nitrogen Oxides Requirements for each affected unit.

		2024	2025	2026	2027	2028
Unit EUCTG HRSG1	SO_2 allowances	This affected unit shall hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and comply with the applicable Acid Rain emissions limitation for sulfur dioxide in accordance with 40 CFR 72.9 (c).				

		2024	2025	2026	2027	2028
Unit EUCTG HRSG2	SO_2 allowances	This affected unit shall hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and comply with the applicable Acid Rain emissions limitation for sulfur dioxide in accordance with 40 CFR 72.9 (c).				

Comments, notes and justifications regarding permit decisions, and changes made to the permit application forms during the review process:

Permit Application: (attached)

Acid Rain Permit Application submitted July 30, 2019

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Approval expires 11/30/2018

Acid Rain Permit Application

For more information, see instructions and 40 CFR 72.30 and 72.31.

This submission is: ☒ new ☐ revised ☐ for ARP permit renewal

STEP 1

Identify the facility name, State, and plant (ORIS) code.

DTE ELECTRIC: BLUE WATER ENERGY CENTER	MI	62192
Facility (Source) Name	State	Plant Code

STEP 2

Enter the unit ID# for every affected unit at the affected source in column "a."

a	b
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)
EUCTGHRSG1	Yes
EUCTGHRSG2	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes

EPA Form 7610-16 (Revised 12-2016)

DTE ELECTRIC: BLUE WATER ENERGY CENTER (62192)
Facility (Source) Name (from STEP 1)

STEP 3

Read the standard requirements.

Permit Requirements

(1) The designated representative of each affected source and each affected unit at the source shall:
  (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
  (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;
(2) The owners and operators of each affected source and each affected unit at the source shall:
  (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
  (ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.
(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

(1) The owners and operators of each source and each affected unit at the source shall:
  (i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and
  (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
  (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
  (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).
(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

DTE ELECTRIC: BLUE WATER ENERGY CENTER (62192)
Facility (Source) Name (from STEP 1)

STEP 3, Cont'd.

Excess Emissions Requirements

(1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected source that has excess emissions in any calendar year shall:
  (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
  (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
  (i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
  (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
  (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
  (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Section 3 – Blue Water Energy Center

DTE ELECTRIC: BLUE WATER ENERGY CENTER (62192)
Facility (Source) Name (from STEP 1)

STEP 3, Cont'd.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;

(2) Limiting the number of allowances a source can hold; provided, that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act;

(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

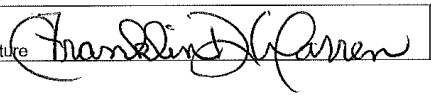
(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4

Read the certification statement, sign, and date.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Franklin D. Warren, Senior Vice President - Fossil Generation, DTE Electric Name	
Signature 	Date 2-29-2019

EPA Form 7610-16 (Revised 12-2016)

Appendix 10-3 BW: Cross State Air Pollution Rule (CSAPR) Trading Program Title V Requirements

Description of CSAPR Monitoring Provisions

The CSAPR subject units, and the unit-specific monitoring provisions, at this source are identified in the following tables. These units are subject to the requirements for the CSAPR NO_X Annual Trading Program, CSAPR NO_X Ozone Season Group 3 Trading Program, and CSAPR SO_2 Group 1 Trading Program, which are included below as Sections I, II, and III, respectively.

Each unit will use one of the following as the monitoring methodology for each parameter as provided below and shall comply with the general monitoring, recordkeeping, reporting and other requirements in conditions 1 through 5 below and in paragraph (b) of Sections I, II, and III:

- Continuous emission monitoring system or systems (CEMS) requirements pursuant to 40 CFR Part 75, Subpart B (for SO_2 monitoring) or 40 CFR Part 75, Subpart H (for NO_X monitoring)
- Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D
- Excepted monitoring system requirements for gas- and oil-fired peaking units pursuant to 40 CFR Part 75, Appendix E
- Low Mass Emissions excepted monitoring (LME) requirements for gas- and oil-fired units pursuant to 40 CFR 75.19
- EPA-approved alternative monitoring system requirements pursuant to 40 CFR Part 75, Subpart E

Unit ID: EU-CTGHRSG1-BW	
Parameter	Monitoring Methodology
SO_2	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D
NO_X	CEMS requirements pursuant to 40 CFR Part 75, Subpart H
Heat Input	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D

Unit ID: EU-CTGHRSG2-BW	
Parameter	Monitoring Methodology
SO_2	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D
NO_X	CEMS requirements pursuant to 40 CFR Part 75, Subpart H
Heat Input	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D

1. The above description of the monitoring used by a unit does not change, create an exemption from, or otherwise affect the monitoring, recordkeeping, and reporting requirements applicable to the unit under 40 CFR 97.430 through 97.435 (CSAPR NO_X Annual Trading Program), 97.1030 through 97.1035 (CSAPR NO_X Ozone Season Group 3 Trading Program), and 97.630 through 97.635 (CSAPR SO_2 Group 1 Trading Program). The monitoring, recordkeeping and reporting requirements applicable to each unit are included below in the standard conditions for the applicable CSAPR trading programs.

2. Owners and operators must submit to the Administrator a monitoring plan for each unit in accordance with 40 CFR 75.53, 75.62 and 75.73, as applicable. The monitoring plan for each unit is available at the EPA's website at https://www.epa.gov/airmarkets/monitoring-plans-part-75-sources.

3. Owners and operators that want to use an alternative monitoring system must submit to the Administrator a petition requesting approval of the alternative monitoring system in accordance with 40 CFR Part 75, Subpart E and 40 CFR 75.66 and 97.435 (CSAPR NO_X Annual Trading Program), 97.1035 (CSAPR NO_X Ozone Season Group 3 Trading Program), and/or 97.635 (CSAPR SO_2 Group 1 Trading Program). The Administrator's response approving or disapproving any petition for an alternative monitoring system is available on the EPA's website at https://www.epa.gov/airmarkets/part-75-petition-responses.

4. Owners and operators that want to use an alternative to any monitoring, recordkeeping, or reporting requirement under 40 CFR 97.430 through 97.434 (CSAPR NO_X Annual Trading Program), 97.1030 through 97.1034 (CSAPR NO_X Ozone Season Group 3 Trading Program), and/or 97.630 through 97.634 (CSAPR SO_2 Group 1 Trading Program) must submit to the Administrator a petition requesting approval of the alternative in accordance with 40 CFR 75.66 and 97.435 (CSAPR NO_X Annual Trading Program), 97.1035 (CSAPR NO_X Ozone Season Group 3 Trading Program), and/or 97.635 (CSAPR SO_2 Group 1 Trading Program). The Administrator's response approving or disapproving any petition for an alternative to a monitoring, recordkeeping, or reporting requirement is available on the EPA's website at https://www.epa.gov/airmarkets/part-75-petition-responses.

5. The descriptions of monitoring applicable to the unit included above meet the requirement of 40 CFR 97.430 through 97.434 (CSAPR NO_X Annual Trading Program), 97.1030 through 97.1034 (CSAPR NO_X Ozone Season Group 3 Trading Program), and 97.630 through 97.634 (CSAPR SO_2 Group 1 Trading Program), and therefore minor permit modification procedures, in accordance with 40 CFR 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B), may be used to add or change this unit's monitoring system description.

SECTION I: CSAPR NO_X Annual Trading Program requirements (40 CFR 97.406)

(a) Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.413 through 97.418.

(b) Emissions monitoring, reporting, and recordkeeping requirements.

(1) The owners and operators, and the designated representative, of each CSAPR NO_X Annual source and each CSAPR NO_X Annual unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.430 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.431 (initial monitoring system certification and recertification procedures), 97.432 (monitoring system out-of-control periods), 97.433 (notifications concerning monitoring), 97.434 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.435 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

(2) The emissions data determined in accordance with 40 CFR 97.430 through 97.435 shall be used to calculate allocations of CSAPR NO_X Annual allowances under 40 CFR 97.411(a)(2) and (b) and 97.412 and to determine compliance with the CSAPR NO_X Annual emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.430 through 97.435 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) NO_X emissions requirements.

(1) CSAPR NO_X Annual emissions limitation.

(i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO_X Annual source and each CSAPR NO_X Annual unit at the source shall hold, in the source's compliance account, CSAPR NO_X Annual allowances available for deduction for such control period under 40 CFR 97.424(a) in an amount not less than the tons of total NO_X emissions for such control period from all CSAPR NO_X Annual units at the source.

(ii). If total NO_X emissions during a control period in a given year from the CSAPR NO_X Annual units at a CSAPR NO_X Annual source are in excess of the CSAPR NO_X Annual emissions limitation set forth in paragraph (c)(1)(i) above, then:

(A). The owners and operators of the source and each CSAPR NO_X Annual unit at the source shall hold the CSAPR NO_X Annual allowances required for deduction under 40 CFR 97.424(d); and

(B). The owners and operators of the source and each CSAPR NO_X Annual unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart AAAAA and the Clean Air Act.

(2) CSAPR NO_X Annual assurance provisions.

(i). If total NO_X emissions during a control period in a given year from all CSAPR NO_X Annual units at CSAPR NO_X Annual sources in the state and Indian country within the borders of such State exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_X emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NO_X Annual allowances available for deduction for such control period under 40 CFR 97.425(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.425(b), of multiplying— (A) The quotient of the amount by which the common designated representative's share of such NO_X emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state and Indian country within the borders of such state for such control period, by which each common designated representative's share of such NO_X emissions exceeds the respective common designated representative's assurance level; and (B) The amount by which total NO_X emissions from all CSAPR NO_X Annual units at CSAPR NO_X Annual sources in the state and Indian country within the borders of such state for such control period exceed the state assurance level.

(ii). The owners and operators shall hold the CSAPR NO_X Annual allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii). Total NO_X emissions from all CSAPR NO_X Annual units at CSAPR NO_X Annual sources in the State and Indian country within the borders of such state during a control period in a given year exceed the state assurance level if such total NO_X emissions exceed the sum, for such control period, of the state NO_X Annual trading budget under 40 CFR 97.410(a) and the state's variability limit under 40 CFR 97.410(b).

(iv). It shall not be a violation of 40 CFR Part 97, Subpart AAAAA or of the Clean Air Act if total NO_X emissions from all CSAPR NO_X Annual units at CSAPR NO_X Annual sources in the State and Indian country within the borders of such State during a control period exceed the state assurance level or if a common designated representative's share of total NO_X emissions from the CSAPR NO_X Annual units at CSAPR NO_X Annual sources in the state and Indian country within the borders of such state during a control period exceeds the common designated representative's assurance level.

(v). To the extent the owners and operators fail to hold CSAPR NO_X Annual allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,

(A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B). Each CSAPR NO_X Annual allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart AAAAA and the Clean Air Act.

(3) Compliance periods.

(i). A CSAPR NO_X Annual unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015, or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.

(ii). A CSAPR NO_X Annual unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

(i). A CSAPR NO_X Annual allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a CSAPR NO_X Annual allowance that was allocated for such control period or a control period in a prior year.

(ii). A CSAPR NO_X Annual allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a CSAPR NO_X Annual allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each CSAPR NO_X Annual allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR Part 97, Subpart AAAAA.
(6) Limited authorization. A CSAPR NO_X Annual allowance is a limited authorization to emit one ton of NO_X during the control period in one year. Such authorization is limited in its use and duration as follows:
  (i). Such authorization shall only be used in accordance with the CSAPR NO_X Annual Trading Program; and
  (ii). Notwithstanding any other provision of 40 CFR Part 97, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.
(7) Property right. A CSAPR NO_X Annual allowance does not constitute a property right.

(d) Title V permit revision requirements.

(1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR NO_X Annual allowances in accordance with 40 CFR Part 97, Subpart AAAAA.
(2) This permit incorporates the CSAPR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.430 through 97.435, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR Part 75, Subparts B and H), an excepted monitoring system (pursuant to 40 CFR Part 75, Appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR Part 75, Subpart E). Therefore, the Description of CSAPR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.406(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of each CSAPR NO_X Annual source and each CSAPR NO_X Annual unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.
  (i). The certificate of representation under 40 CFR 97.416 for the designated representative for the source and each CSAPR NO_X Annual unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.416 changing the designated representative.
  (ii). All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart AAAAA.
  (iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NO_X Annual Trading Program.
(2) The designated representative of a CSAPR NO_X Annual source and each CSAPR NO_X Annual unit at the source shall make all submissions required under the CSAPR NO_X Annual Trading Program, except as provided in 40 CFR 97.418. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR Parts 70 and 71.

(f) Liability.

(1) Any provision of the CSAPR NO_X Annual Trading Program that applies to a CSAPR NO_X Annual source or the designated representative of a CSAPR NO_X Annual source shall also apply to the owners and operators of such source and of the CSAPR NO_X Annual units at the source.
(2) Any provision of the CSAPR NO_X Annual Trading Program that applies to a CSAPR NO_X Annual unit or the designated representative of a CSAPR NO_X Annual unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.
No provision of the CSAPR NO_X Annual Trading Program or exemption under 40 CFR 97.405 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NO_X Annual source or CSAPR NO_X Annual unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

(h) Effect on units in Indian country.
Notwithstanding the provisions of paragraphs (a) through (g) above, paragraphs (a) through (g) shall be deemed not to impose any requirements on any source or unit, or any owner, operator, or designated representative with regard to any source or unit, in Indian country within the borders of the state.

SECTION II: CSAPR NO_X Ozone Season Group 3 Trading Program Requirements (40 CFR 97.1006)

(a) Designated representative requirements.
The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.1013 through 97.1018.

(b) Emissions monitoring, reporting, and recordkeeping requirements.
(1) The owners and operators, and the designated representative, of each CSAPR NO_X Ozone Season Group 3 source and each CSAPR NO_X Ozone Season Group 3 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.1030 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.1031 (initial monitoring system certification and recertification procedures), 97.1032 (monitoring system out-of-control periods), 97.1033 (notifications concerning monitoring), 97.1034 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.1035 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
(2) The emissions data determined in accordance with 40 CFR 97.1030 through 97.1035 shall be used to calculate allocations of CSAPR NO_X Ozone Season Group 3 allowances under 40 CFR 97.1011(a)(2) and (b) and 97.1012 and to determine compliance with the CSAPR NO_X Ozone Season Group 3 emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.1030 through 97.1035 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) NO_X emissions requirements.
(1) CSAPR NO_X Ozone Season Group 3 emissions limitation.
(i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO_X Ozone Season Group 3 source and each CSAPR NO_X Ozone Season Group 3 unit at the source shall hold, in the source's compliance account, CSAPR NO_X Ozone Season Group 3 allowances available for deduction for such control period under 40 CFR 97.1024(a) in an amount not less than the tons of total NO_X emissions for such control period from all CSAPR NO_X Ozone Season Group 3 units at the source.
(ii). If total NO_X emissions during a control period in a given year from the CSAPR NO_X Ozone Season Group 3 units at a CSAPR NO_X Ozone Season Group 3 source are in excess of the CSAPR NO_X Ozone Season Group 3 emissions limitation set forth in paragraph (c)(1)(i) above, then:
(A). The owners and operators of the source and each CSAPR NO_X Ozone Season Group 3 unit at the source shall hold the CSAPR NOX Ozone Season Group 3 allowances required for deduction under 40 CFR 97.1024(d); and
(B). The owners and operators of the source and each CSAPR NO_X Ozone Season Group 3 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart GGGGG and the Clean Air Act.
(2) CSAPR NO_X Ozone Season Group 3 assurance provisions.

(i). If total NO_X emissions during a control period in a given year from all CSAPR NO_X Ozone Season Group 3 units at CSAPR NO_X Ozone Season Group 3 sources in the state and Indian country within the borders of such state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_X emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NO_X Ozone Season Group 3 allowances available for deduction for such control period under 40 CFR 97.1025(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.1025(b), of multiplying—

(A). The quotient of the amount by which the common designated representative's share of such NO_X emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state and Indian country within the borders of such state for such control period, by which each common designated representative's share of such NO_X emissions exceeds the respective common designated representative's assurance level; and

(B). The amount by which total NO_X emissions from all CSAPR NO_X Ozone Season Group 3 units at CSAPR NO_X Ozone Season Group 3 sources in the state and Indian country within the borders of such state for such control period exceed the state assurance level.

(ii). The owners and operators shall hold the CSAPR NO_X Ozone Season Group 3 allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii). Total NO_X emissions from all CSAPR NO_X Ozone Season Group 3 units at CSAPR NO_X Ozone Season Group 3 sources in the state and Indian country within the borders of such state during a control period in a given year exceed the state assurance level if such total NO_X emissions exceed the sum, for such control period, of the State NO_X Ozone Season Group 3 trading budget under 40 CFR 97.1010(a) and the state's variability limit under 40 CFR 97.1010(b).

(iv). It shall not be a violation of 40 CFR Part 97, Subpart GGGGG or of the Clean Air Act if total NO_X emissions from all CSAPR NO_X Ozone Season Group 3 units at CSAPR NO_X Ozone Season Group 3 sources in the state and Indian country within the borders of such state during a control period exceed the state assurance level or if a common designated representative's share of total NO_X emissions from the CSAPR NO_X Ozone Season Group 3 units at CSAPR NO_X Ozone Season Group 3 sources in the state and Indian country within the borders of such state during a control period exceeds the common designated representative's assurance level.

(v). To the extent the owners and operators fail to hold CSAPR NO_X Ozone Season Group 3 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,

(A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B). Each CSAPR NO_X Ozone Season Group 3 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart GGGGG and the Clean Air Act.

(3) Compliance periods.

(i). A CSAPR NO_X Ozone Season Group 3 unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.1030(b) and for each control period thereafter.

(ii). A CSAPR NO_X Ozone Season Group 3 unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.1030(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

(i). A CSAPR NOX Ozone Season Group 3 allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a CSAPR NO_X Ozone Season Group 3 allowance that was allocated for such control period or a control period in a prior year.

(ii). A CSAPR NO_X Ozone Season Group 3 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a CSAPR NO_X Ozone Season Group 3 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each CSAPR NO_X Ozone Season Group 3 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR Part 97, Subpart GGGGG.

(6) Limited authorization. A CSAPR NO_X Ozone Season Group 3 allowance is a limited authorization to emit one ton of NO_X during the control period in one year. Such authorization is limited in its use and duration as follows:

(i). Such authorization shall only be used in accordance with the CSAPR NO_X Ozone Season Group 3 Trading Program; and

(ii). Notwithstanding any other provision of 40 CFR Part 97, Subpart GGGGG, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A CSAPR NO_X Ozone Season Group 3 allowance does not constitute a property right.

(d) Title V permit revision requirements.

(1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR NO_X Ozone Season Group 3 allowances in accordance with 40 CFR Part 97, Subpart GGGGG.

(2) This permit incorporates the CSAPR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.1030 through 97.1035, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR Part 75, Subparts B and H), an excepted monitoring system (pursuant to 40 CFR Part 75, Appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR Part 75, Subpart E). Therefore, the Description of CSAPR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.1006(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of each CSAPR NO_X Ozone Season Group 3 source and each CSAPR NO_X Ozone Season Group 3 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

(i). The certificate of representation under 40 CFR 97.1016 for the designated representative for the source and each CSAPR NO_X Ozone Season Group 3 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.1016 changing the designated representative.

(ii). All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart GGGGG.

(iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NO_X Ozone Season Group 3 Trading Program.

(2) The designated representative of a CSAPR NO_X Ozone Season Group 3 source and each CSAPR NO_X Ozone Season Group 3 unit at the source shall make all submissions required under the CSAPR NO_X Ozone Season Group 3 Trading Program, except as provided in 40 CFR 97.1018. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR Parts 70 and 71.

(f) Liability.

(1) Any provision of the CSAPR NO_X Ozone Season Group 3 Trading Program that applies to a CSAPR NO_X Ozone Season Group 3 source or the designated representative of a CSAPR NO_X Ozone Season Group 3 source shall also apply to the owners and operators of such source and of the CSAPR NO_X Ozone Season Group 3 units at the source.

(2) Any provision of the CSAPR NO_X Ozone Season Group 3 Trading Program that applies to a CSAPR NO_X Ozone Season Group 3 unit or the designated representative of a CSAPR NO_X Ozone Season Group 3 unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.

No provision of the CSAPR NO_X Ozone Season Group 3 Trading Program or exemption under 40 CFR 97.1005 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NO_X Ozone Season Group 3 source or CSAPR NO_X Ozone Season Group 3 unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

(h) Effect on units in Indian country.

Notwithstanding the provisions of paragraphs (a) through (g) above, paragraphs (a) through (g) shall be deemed not to impose any requirements on any source or unit, or any owner, operator, or designated representative with regard to any source or unit, in Indian country within the borders of the state.

SECTION III: CSAPR SO_2 Group 1 Trading Program requirements (40 CFR 97.606)

(a) Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.613 through 97.618.

(b) Emissions monitoring, reporting, and recordkeeping requirements.

(1) The owners and operators, and the designated representative, of each CSAPR SO_2 Group 1 source and each CSAPR SO_2 Group 1 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.630 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.631 (initial monitoring system certification and recertification procedures), 97.632 (monitoring system out-of-control periods), 97.633 (notifications concerning monitoring), 97.634 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.635 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

(2) The emissions data determined in accordance with 40 CFR 97.630 through 97.635 shall be used to calculate allocations of CSAPR SO_2 Group 1 allowances under 40 CFR 97.611(a)(2) and (b) and 97.612 and to determine compliance with the CSAPR SO_2 Group 1 emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.630 through 97.635 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) SO_2 emissions requirements.

(1) CSAPR SO_2 Group 1 emissions limitation.

(i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR SO_2 Group 1 source and each CSAPR SO2 Group 1 unit at the source shall hold, in the source's compliance account, CSAPR SO_2 Group 1 allowances available for deduction for such control period under 40 CFR 97.624(a) in an amount not less than the tons of total SO_2 emissions for such control period from all CSAPR SO_2 Group 1 units at the source.

(ii). If total SO_2 emissions during a control period in a given year from the CSAPR SO_2 Group 1 units at a CSAPR SO_2 Group 1 source are in excess of the CSAPR SO_2 Group 1 emissions limitation set forth in paragraph (c)(1)(i) above, then:

(A). The owners and operators of the source and each CSAPR SO_2 Group 1 unit at the source shall hold the CSAPR SO_2 Group 1 allowances required for deduction under 40 CFR 97.624(d); and

(B). The owners and operators of the source and each CSAPR SO_2 Group 1 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation 40 CFR Part 97, Subpart CCCCC and the Clean Air Act.

(2) CSAPR SO_2 Group 1 assurance provisions.

(i). If total SO_2 emissions during a control period in a given year from all CSAPR SO_2 Group 1 units at CSAPR SO_2 Group 1 sources in the state and Indian country within the borders of such state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such SO_2 emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR SO_2 Group 1 allowances available for deduction for such control period under 40 CFR 97.625(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.625(b), of multiplying—

(A). The quotient of the amount by which the common designated representative's share of such SO_2 emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state and Indian country within the borders of such state for such control period, by which each common designated representative's share of such SO_2 emissions exceeds the respective common designated representative's assurance level; and

(B). The amount by which total SO_2 emissions from all CSAPR SO_2 Group 1 units at CSAPR SO_2 Group 1 sources in the state and Indian country within the borders of such state for such control period exceed the state assurance level.

(ii). The owners and operators shall hold the CSAPR SO_2 Group 1 allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii). Total SO_2 emissions from all CSAPR SO_2 Group 1 units at CSAPR SO_2 Group 1 sources in the state and Indian country within the borders of such state during a control period in a given year exceed the state assurance level if such total SO_2 emissions exceed the sum, for such control period, of the state SO_2 Group 1 trading budget under 40 CFR 97.610(a) and the state's variability limit under 40 CFR 97.610(b).

(iv). It shall not be a violation of 40 CFR Part 97, Subpart CCCCC or of the Clean Air Act if total SO_2 emissions from all CSAPR SO_2 Group 1 units at CSAPR SO_2 Group 1 sources in the state and Indian country within the borders of such state during a control period exceed the state assurance level or if a common designated representative's share of total SO_2 emissions from the CSAPR SO_2 Group 1 units at CSAPR SO_2 Group 1 sources in the state and Indian country within the borders of such state during a control period exceeds the common designated representative's assurance level.

(v). To the extent the owners and operators fail to hold CSAPR SO_2 Group 1 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,

(A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B). Each CSAPR SO_2 Group 1 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart CCCCC and the Clean Air Act.

(3) Compliance periods.

(i). A CSAPR SO_2 Group 1 unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.

(ii). A CSAPR SO_2 Group 1 unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

(i). A CSAPR SO_2 Group 1 allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a CSAPR SO_2 Group 1 allowance that was allocated for such control period or a control period in a prior year.

(ii). A CSAPR SO_2 Group 1 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a CSAPR SO_2 Group 1 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each CSAPR SO_2 Group 1 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR Part 97, Subpart CCCCC.

(6) Limited authorization. A CSAPR SO_2 Group 1 allowance is a limited authorization to emit one ton of SO_2 during the control period in one year. Such authorization is limited in its use and duration as follows:

(i). Such authorization shall only be used in accordance with the CSAPR SO_2 Group 1 Trading Program; and

(ii). Notwithstanding any other provision of 40 CFR Part 97, Subpart CCCCC, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A CSAPR SO_2 Group 1 allowance does not constitute a property right.

(d) Title V permit revision requirements.

(1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR SO_2 Group 1 allowances in accordance with 40 CFR Part 97, Subpart CCCCC.

(2) This permit incorporates the CSAPR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.630 through 97.635, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR Part 75, Subparts B and H), an excepted monitoring system (pursuant to 40 CFR Part 75, Appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR Part 75, Subpart E). Therefore, the Description of CSAPR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.606(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of each CSAPR SO_2 Group 1 source and each CSAPR SO_2 Group 1 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

(i). The certificate of representation under 40 CFR 97.616 for the designated representative for the source and each CSAPR SO_2 Group 1 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.616 changing the designated representative.

(ii). All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart CCCCC.

(iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR SO_2 Group 1 Trading Program.

(2) The designated representative of a CSAPR SO_2 Group 1 source and each CSAPR SO_2 Group 1 unit at the source shall make all submissions required under the CSAPR SO_2 Group 1 Trading Program, except as provided in 40 CFR 97.618. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR Parts 70 and 71.

(f) Liability.

(1) Any provision of the CSAPR SO_2 Group 1 Trading Program that applies to a CSAPR SO_2 Group 1 source or the designated representative of a CSAPR SO_2 Group 1 source shall also apply to the owners and operators of such source and of the CSAPR SO_2 Group 1 units at the source.

(2) Any provision of the CSAPR SO_2 Group 1 Trading Program that applies to a CSAPR SO_2 Group 1 unit or the designated representative of a CSAPR SO_2 Group 1 unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.

No provision of the CSAPR SO_2 Group 1 Trading Program or exemption under 40 CFR 97.605 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR SO_2 Group 1 source or CSAPR SO_2 Group 1 unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

(h) Effect on units in Indian country.

Notwithstanding the provisions of paragraphs (a) through (g) above, paragraphs (a) through (g) shall be deemed not to impose any requirements on any source or unit, or any owner, operator, or designated representative with regard to any source or unit, in Indian country within the borders of the state..