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|  | **MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY**  **AIR QUALITY DIVISION** |  |
| EFFECTIVE DATE: June 30, 2024  ISSUED TO  **DTE Electric Company – Greenwood Energy Center**  State Registration Number (SRN): B6145  LOCATED AT  7000 Kilgore Road, Avoca, St. Clair County, Michigan 48006-2525 | | |
|  | | |
| **RENEWABLE OPERATING PERMIT**  Permit Number: MI-ROP-B6145-2024  Expiration Date: June 30, 2029  Administratively Complete ROP Renewal Application  Due Between December 30, 2027 and December 30, 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. | | |

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| **SOURCE-WIDE PERMIT TO INSTALL**  Permit Number: MI-PTI-B6145-2024  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 PTl 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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Julie Brunner, ROP Central Unit Supervisor **TABLE OF CONTENTS**

[AUTHORITY AND ENFORCEABILITY 4](#_Toc170713266)

[SECTION 1 – MAIN BOILER 5](#_Toc170713267)

[A. GENERAL CONDITIONS 6](#_Toc170713268)

[Permit Enforceability 6](#_Toc170713269)

[General Provisions 6](#_Toc170713270)

[Equipment & Design 7](#_Toc170713271)

[Emission Limits 7](#_Toc170713272)

[Testing/Sampling 7](#_Toc170713273)

[Monitoring/Recordkeeping 8](#_Toc170713274)

[Certification & Reporting 8](#_Toc170713275)

[Permit Shield 9](#_Toc170713276)

[Revisions 10](#_Toc170713277)

[Reopenings 10](#_Toc170713278)

[Renewals 11](#_Toc170713279)

[Stratospheric Ozone Protection 11](#_Toc170713280)

[Risk Management Plan 11](#_Toc170713281)

[Emission Trading 11](#_Toc170713282)

[Permit to Install (PTI) 12](#_Toc170713283)

[B. SOURCE-WIDE CONDITIONS 13](#_Toc170713284)

[C. EMISSION UNIT SPECIAL CONDITIONS 14](#_Toc170713285)

[EMISSION UNIT SUMMARY TABLE 14](#_Toc170713286)

[EUBOILER1 16](#_Toc170713287)

[EUEASTAUXBOILER 22](#_Toc170713288)

[EUGDF 25](#_Toc170713289)

[EUEMGFIREPUMP 27](#_Toc170713290)

[D. FLEXIBLE GROUP SPECIAL CONDITIONS 30](#_Toc170713291)

[FLEXIBLE GROUP SUMMARY TABLE 30](#_Toc170713292)

[FGEASTAUXBOILER-MACT 31](#_Toc170713293)

[FGCOLDCLEANERS 35](#_Toc170713294)

[E. NON-APPLICABLE REQUIREMENTS 38](#_Toc170713295)

[APPENDICES 39](#_Toc170713296)

[Appendix 1-1. Acronyms and Abbreviations 39](#_Toc170713297)

[Appendix 2-1. Schedule of Compliance 40](#_Toc170713298)

[Appendix 3-1. Monitoring Requirements 40](#_Toc170713299)

[Appendix 4-1. Recordkeeping 42](#_Toc170713300)

[Appendix 5-1. Testing Procedures 42](#_Toc170713301)

[Appendix 6-1. Permits to Install 42](#_Toc170713302)

[Appendix 7-1. Emission Calculations 42](#_Toc170713303)

[Appendix 8-1. Reporting 42](#_Toc170713304)

[Appendix 9-1. Acid Rain Permit 43](#_Toc170713305)

[Appendix 10-1. Cross State Air Pollution Rule (CSAPR) Trading Program Title V Requirements 49](#_Toc170713306)

[SECTION 2 – COMBUSTION TURBINE GENERATORS 61](#_Toc170713307)

[A. GENERAL CONDITIONS 62](#_Toc170713308)

[Permit Enforceability 62](#_Toc170713309)

[General Provisions 62](#_Toc170713310)

[Equipment & Design 63](#_Toc170713311)

[Emission Limits 63](#_Toc170713312)

[Testing/Sampling 63](#_Toc170713313)

[Monitoring/Recordkeeping 64](#_Toc170713314)

[Certification & Reporting 64](#_Toc170713315)

[Permit Shield 65](#_Toc170713316)

[Revisions 66](#_Toc170713317)

[Reopenings 66](#_Toc170713318)

[Renewals 67](#_Toc170713319)

[Stratospheric Ozone Protection 67](#_Toc170713320)

[Risk Management Plan 67](#_Toc170713321)

[Emission Trading 67](#_Toc170713322)

[Permit to Install (PTI) 68](#_Toc170713323)

[B. SOURCE-WIDE CONDITIONS 69](#_Toc170713324)

[C. EMISSION UNIT SPECIAL CONDITIONS 70](#_Toc170713325)

[EMISSION UNIT SUMMARY TABLE 70](#_Toc170713326)

[D. FLEXIBLE GROUP SPECIAL CONDITIONS 71](#_Toc170713327)

[FLEXIBLE GROUP SUMMARY TABLE 71](#_Toc170713328)

[FGCTGS 72](#_Toc170713329)

[E. NON-APPLICABLE REQUIREMENTS 78](#_Toc170713330)

[APPENDICES 79](#_Toc170713331)

[Appendix 1-2. Acronyms and Abbreviations 79](#_Toc170713332)

[Appendix 2-2. Schedule of Compliance 80](#_Toc170713333)

[Appendix 3-2. Monitoring Requirements 80](#_Toc170713334)

[Appendix 4-2. Recordkeeping 80](#_Toc170713335)

[Appendix 5-2. Testing Procedures 80](#_Toc170713336)

[Appendix 6-2. Permits to Install 80](#_Toc170713337)

[Appendix 7-2. Emission Calculations 80](#_Toc170713338)

[Appendix 8-2. Reporting 81](#_Toc170713339)

[Appendix 9-2. Acid Rain Permit 82](#_Toc170713340)

[Appendix 10-2. Cross-State Air Pollution Rule (CSAPR) Trading Program Title V Requirements 88](#_Toc170713341)

# 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.

# SECTION 1 – MAIN BOILER

# 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))**
   1. 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.
   2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the ROP.
   3. Inspect, at reasonable times, any of the following:
      1. Any stationary source.
      2. Any emission unit.
      3. Any equipment, including monitoring and air pollution control equipment.
      4. Any work practices or operations regulated or required under the ROP.
   4. 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

1. 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)**
2. 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

1. 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))**
   1. A 6-minute average of 20% opacity, except for one 6-minute average per hour of not more than 27% opacity.
   2. A limit specified by an applicable federal new source performance standard.

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

1. 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:
   1. Injurious effects to human health or safety, animal life, plant life of significant economic value, or property.1 **(R 336.1901(a))**
   2. Unreasonable interference with the comfortable enjoyment of life and property.1**(R 336.1901(b))**

## Testing/Sampling

1. 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)**
2. 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))**
3. 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

1. 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))**
   1. The date, location, time, and method of sampling or measurements.
   2. The dates the analyses of the samples were performed.
   3. The company or entity that performed the analyses of the samples.
   4. The analytical techniques or methods used.
   5. The results of the analyses.
   6. The related process operating conditions or parameters that existed at the time of sampling or measurement.
2. 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

1. 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))**
2. 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/](https://gcc02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fcdx.epa.gov%2F&data=05%7C01%7CORENTK%40michigan.gov%7Cf851657317c1495e6aab08dbf0f27fc7%7Cd5fb7087377742ad966a892ef47225d1%7C0%7C0%7C638368696538391429%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=g47mBhO2BDhi5HkAFttL1hXx%2B3d7TH9tHB6UHijdGXc%3D&reserved=0)), 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))**
3. 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))**
4. 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))**
   1. 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).
   2. 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.
   3. 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.
5. 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))**
   1. 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.
   2. 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.
6. 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))**
7. 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))**
8. 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

1. 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))**
   1. The applicable requirements are included and are specifically identified in the ROP.
   2. 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.

1. Nothing in this ROP shall alter or affect any of the following:
   1. 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))**
   2. 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))**
   3. The applicable requirements of the acid rain program, consistent with Section 408(a) of the CAA. **(R 336.1213(6)(b)(iii))**
2. The ability of the USEPA to obtain information from a source pursuant to Section 114 of the CAA. **(R 336.1213(6)(b)(iv))**
3. The permit shield shall not apply to provisions incorporated into this ROP through procedures for any of the following:
   1. Operational flexibility changes made pursuant to Rule 215. **(R 336.1215(5))**
   2. Administrative Amendments made pursuant to Rule 216(1)(a)(i)-(iv). **(R 336.1216(1)(b)(iii))**
   3. 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))**
   4. Minor Permit Modifications made pursuant to Rule 216(2). **(R 336.1216(2)(f))**
   5. State-Only Modifications made pursuant to Rule 216(4) until the changes have been approved by the department. **(R 336.1216(4)(e))**
4. 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

1. 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)**
2. 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))**
3. 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))**
4. 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

1. A ROP shall be reopened by the department prior to the expiration date and revised by the department under any of the following circumstances:
   1. 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))**
   2. If additional requirements pursuant to Title IV of the CAA become applicable to this stationary source. **(R 336.1217(2)(a)(ii))**
   3. 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))**
   4. If the department determines that the ROP must be revised to ensure compliance with the applicable requirements. **(R 336.1217(2)(a)(iv))**

## Renewals

1. 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

1. 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.
2. 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

1. 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).
2. 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):
   1. June 21, 1999,
   2. Three years after the date on which a regulated substance is first listed under 40 CFR 68.130, or
   3. The date on which a regulated substance is first present above a threshold quantity in a process.
3. 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.
4. 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

1. 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)

1. 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))**
2. 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)**
3. 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)**
4. 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:**

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

2This 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** |
| --- | --- | --- | --- |
| EUBOILER1 | Greenwood Energy Center Unit 1 boiler, nominally rated at 785 MW gross output primarily fueled by natural gas but can also burn No. 2 fuel oil, No. 6 fuel oil, specification used oil, or a combination thereof (hereinafter termed “oil fuels”), Flue gas injection is used for NOx control. | 05-01-1972 /  09-11-1997 | NA |
| EUEASTAUXBOILER | East auxiliary boiler nominally rated at 181.4 MMBTU per hour heat input, equipped with a continuous oxygen trim system and fired only with pipeline quality natural gas. Maximum steam output is 150,000 pounds per hour. | 05-01-1972 /  09-11-1997 | FGEASTAUXBOILER-MACT |
| EUCOLDCLEANER1 | EUCOLDCLEANER1 is located at the Machine shop. Model#E1000, Serial#3077801, Reid Vapor Pressure #0.067 kPa, 0.0097 psi, Type of Solvent# Zep Dyna 143, Air/Vapor Interface#2.8 sqft(27"x15") | 04-01-1998 | FGCOLDCLEANERS |
| EUCOLDCLEANER2 | EUCOLDCLEANER2 is located at the plant first floor. Model#90320W, Serial#5081388, Reid Vapor Pressure #0.067 kPa, 0.0097 psi, Type of Solvent# Zep Dyna 143, Air/Vapor Interface#5.5 sqft (35"x23") | 08-08-2007 | FGCOLDCLEANERS |
| EUGDF | A new (placed into operation on or after July 1, 1979) gasoline underground storage tank of 2,500--gallon capacity (9.46 cubic meters) for gasoline dispensing at the facility. This emission unit is exempt from the requirements of R 336.1201 per R 336.1284(2)(g)(ii). | 09-09-1992 | NA |
| EUEMGFIREPUMP | This engine is a turbo-charged, air-cooled, 4-cycle, and in-line 6-cylinder diesel compression ignition engine with 8.9-liter total cylinder displacement. Maximum heat input of 1.98 MMBTU/hr with an output at 260 HP at 1760 RPM. This engine is subject to 40 CFR Part 60, Subpart IIII and 40 CFR Part 63, Subpart ZZZZ. The fire pump engine is exempt from R 336.1201 per R 336.1285(2)(g). | 08-03-2016 | NA |

## EUBOILER1

**EMISSION UNIT CONDITIONS**

**DESCRIPTION**

Greenwood Energy Center Unit 1 boiler, nominally rated at 785 MW gross output, primarily fueled by natural gas but can also burn No. 2 fuel oil, No. 6 fuel oil, specification used oil, or a combination thereof (hereinafter termed “oil fuels”), Flue gas injection is used for NOx control.

**Flexible Group ID:** NA

**POLLUTION CONTROL EQUIPMENT**

Flue gas injection system

**I. EMISSION LIMIT(S)**

| **Pollutant** | **Limit** | **Time Period/ Operating Scenario** | **Equipment** | **Monitoring/**  **Testing Method** | **Underlying Applicable Requirements** |
| --- | --- | --- | --- | --- | --- |
| 1. Sulfur dioxide  (SO2) | 0.80 lb/MMBTU heat input2,a | Hourly  (3-hour averagec,d) | EUBOILER1 | SC VI.1 | **40 CFR 60.43(a)(1)** |
| 1. Sulfur dioxide  (SO2) | 5760 lbs. per hour2 | Hourly  (3-hour averagec) | EUBOILER1 | SC VI.1 | **R 336.1201(3)** |
| 1. Particulate matter (PM) | 0.072 lb/MMBTU heat input2 | Hourly | EUBOILER1 | SC V.4 | **R 336.1331(1)(c)** |
| 1. Particulate matter (PM) | 0.10 lb/MMBTU heat input | Hourly | EUBOILER1 | SC V.4 | **40 CFR 60.42(a)(1)** |
| 1. Particulate matter (PM) | 518.4 lbs. per hour2 | Hourly | EUBOILER1 | SC V.4 | **R 336.1331(1)(c)** |
| 1. Particulate matter (PM) | 0.10 lb. per 1,000 lbs. of exhaust gases on a wet basis, corrected to 50% excess air2 | Hourly | EUBOILER1 | SC V.2 | **R 336.1331(1)(c)** |
| 1. Nitrogen Oxides (NOx)   *(when firing oil fuels only)* | 0.30 lb/MMBTU heat input2 | Hourly  (3-hour averagec,d) | EUBOILER1 | SC VI.1 | **40 CFR 60.44(a)(2)** |
| 1. Nitrogen Oxides (NOx)   *(When firing oil fuels only)* | 2,160 lbs. per hour2 | Hourly  (3-hour averagec) | EUBOILER1 | SC VI.1 | **R 336.1201(3)** |
| 1. Nitrogen Oxides (NOx)   *(When firing natural gas only)* | 0.20 lb/MMBTU heat input2 | Hourly  (3-hour averagec,d) | EUBOILER1 | SC VI.1 | **40 CFR 60.44(a)(1)** |
| 1. Nitrogen Oxides (NOx)   *(When firing natural gas only)* | 1,494 lbs. per hour2 | Hourly  (3-hour averagec) | EUBOILER1 | SC VI.1 | **R 336.1201(3)** |
| 1. Nitrogen Oxides (NOx)   *(When co-firing oil fuels and natural gas only)* | Prorated between 0.20 and 0.30 lb/MMBTU2,b | Hourly  (3-hour averagec,d) | EUBOILER1 | SC VI.1 | **40 CFR 60.44(b)** |
| 1. Visible Emissions | 20% opacity average per 6-minute period except for one 6-minute period per hour of not more than 27% opacity2 | 6-minute average | EUBOILER1 | SC VI.1 | **R 336.1301(1)(b), 40 CFR 60.42(a)(2)** |

a This is equivalent to using oil fuels with 0.78% sulfur content and a heat value of 19,390 BTU’s per pound. Compliance with this limit shall be considered compliance with the limit of R336.1401.

b Based on the ratio of the total heat input provided by the natural gas and the total heat input provided by the oil that is being combusted as a mixture in the boiler.

c Compliance with SO2/NOx emission rate limits shall be based upon any three-hour average determined in accordance with the performance test established by 40 CFR 60.8.

d Operations during periods of startup, shutdown, or malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard per 40 CFR 60.8(c).

**II. MATERIAL LIMIT(S)**

1. The permittee shall burn only No. 2 fuel oil, No. 6 fuel oil, specification used oil, or natural gas or blends of these fuels in EUBOILER1.2 **(R 336.1201(3))**

| **Material** | **Limit** | **Time Period/ Operating Scenario** | **Equipment** | **Monitoring/**  **Testing Method** | **Underlying Applicable Requirements** |
| --- | --- | --- | --- | --- | --- |
| 1. Total halogens in specification used oil | ≤ 4,000 ppm2,**\***  (by weight) | Each batch  Received | EUBOILER1 | SC V.3 | **R 336.1201(3)** |
| 1. Total lead (Pb) in specification used oil | ≤ 100 ppm2 | Each batch  Received | EUBOILER1 | SC V.3 | **R 336.1201(3)** |
| 1. Total cadmium (Cd) in specification used oil | ≤ 2 ppm2 | Each batch  Received | EUBOILER1 | SC V.3 | **R 336.1201(3)** |
| 1. Total chromium (Cr) in specification used oil | ≤ 10 ppm2 | Each batch  Received | EUBOILER1 | SC V.3 | **R 336.1201(3)** |
| 1. Total arsenic (As) in specification used oil | ≤ 5 ppm2 | Each batch  Received | EUBOILER1 | SC V.3 | **R 336.1201(3)** |
| 1. Flashpoint of specification used oil | ≥ 100 °F2  (closed cup) | Each batch  Received | EUBOILER1 | SC V.3 | **R 336.1201(3)** |
| 1. Polychlorinated biphenyls (PCB) in specification used oil | < 2 ppm2 | Each batch  received | EUBOILER1 | SC V.3 | **R 336.1201(3)** |

**\*** If total halogens are >1,000 ppm, an analysis shall be conducted to ensure that no halogenated compound listed in Appendix VIII of 40 CFR Part 261 is present in concentrations greater than 100 ppm.

**III. PROCESS/OPERATIONAL RESTRICTION(S)**

1. The permittee shall not receive, unload, or store, any specification used oil which is not accompanied by the vendor’s certification and analytical data. Analytical data must show compliance with the limits set forth in Section II prior to unloading and/or storing the specification used oil.2 **(R 336.1201(3))**
2. The permittee shall not operate EUBOILER1 unless all of the requirements of 40 CFR 52.21, the federal Prevention of Significant Deterioration rules and regulations, are being met. This permit is issued pursuant to the determination that the equipment covered by this permit can comply with all of the requirements under these rules and regulations.2 **(R 336.1201(3))**
3. The permittee shall submit within 90 days of permit issuance, and implement and maintain, a malfunction abatement plan (MAP) as described in Rule 911(2), for EUBOILER1. The MAP shall, at a minimum, specify the following:
   1. 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.
   2. 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.
   3. 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. **(R 336.1911, R 336.1912(6))**

**IV. DESIGN/EQUIPMENT PARAMETER(S)**

1. The permittee shall not operate EUBOILER1 unless the flue gas injection system is installed, maintained, and operated in a manner satisfactory to the District Supervisor.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. The permittee shall analyze and record the sulfur content of the oil fuel.2 **(R 336.1201(3))**
2. Every third year, or more frequently upon AQD request, the permittee shall verify PM emission rates from EUBOILER1 by testing at owner's expense, in accordance with Department requirements. The permittee shall test the particulate matter emission rate using Reference Method 5, results reported on a wet basis, corrected to 50% excess air. Alternate methods may be used, subject to AQD approval. 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 336.1201(3), R 336.2001(3), R 336.2001(4), R 336.2001(5))**
3. 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 |

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)**

1. The permittee shall verify the PM emission rates from EUBOILER1, and at a minimum, every three years from the date of the last test, thereafter. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**
2. The permittee shall not operate EUBOILER1 unless the approved facility Quality Control Program for Burning Specification Used Oil is implemented and maintained.2 **(R 336.1201(3))**
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 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))**

The permittee shall install, calibrate, maintain and operate continuous emission monitoring systems for sulfur dioxide, nitrogen oxides, and carbon dioxide, and a continuous opacity monitoring system of the exhaust gases in accordance with the Emission and Fuel Monitoring section of 40 CFR Part 60, Subpart D.2 **(40 CFR Part 60, Subpart D, 40 CFR 60.45)**

1. The permittee shall maintain the following records on a monthly basis:2 **(R 336.1201(3))**

Heating value of oil fuels, as fired, expressed in BTU per pound

Heat input to EUBOILER1 from natural gas, expressed in MMBTU per hour

Heat input to EUBOILER1 from oil fuels, expressed in MMBTU per hour

Sulfur content of oil fuels, expressed as a percentage by weight

Total operating hours of EUBOILER1

Quantity of used oil burned of EUBOILER1

1. The permittee shall not operate EUBOILER1 unless the monitoring and recordkeeping provisions of the approved facility Quality Control Program for Burning Specification Used Oil are implemented and maintained.2 **(R 336.1201(3))**
2. The permittee shall maintain, in a satisfactory manner, maintenance records for EUBOILER1. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1213(3))**

**See Appendix 3-1**

**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 orreceived 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))**

1. 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. Quarterly reporting of emissions and operating information. Due 30 calendar days following the end of the quarter in which the data were collected. Compliance with this requirement shall be considered compliance with the reporting requirement specified in 40 CFR Part 60, Subpart D.2 **(R 336.2170, 40 CFR 60.45(g) and (h))**

6. The permittee shall report sulfur dioxide, nitrogen oxide and carbon dioxide emission, volumetric flow, and opacity data in accordance with 40 CFR Part 75 (Continuous Emission Monitoring).2 **(R 336.1201(3))**

7. 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), and (c), Title I (Air Pollution Prevention and Control), Clean Air Act, Section 114(a))**

a. Excess emissions, corrective action taken and the nature and cause of excess emissions, if known, as follows: For opacity measurements, the report shall consist of the magnitude, in actual percent opacity, of all six-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 six 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.

8. 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 monthly emission rate averages.2 **(R 336.1201(3), Title I (Air Pollution Prevention and Control) of the Clean Air Act, Section 114(a))**

**See Appendix 8-1**

**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. SV001 | 2792 | 4962 | **R 336.1201(3)** |

**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 D. **(40 CFR Part 60, Subparts A and D)**
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. Phase II, Acid Rain Permit No. MI-AR-6035-2024 is hereby incorporated into this ROP as Appendix 9. **(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 NOX Annual Trading Program, as specified in 40 CFR Part 97, Subpart AAAAA, and identified in Appendix 10-1. **(40 CFR Part 97, Subpart AAAAA)**
5. The permittee shall comply with the provisions of the Cross-State Air Pollution Rule NOX Ozone Season Group 3 Trading program, as specified in 40 CFR Part 97, Subpart GGGGG, and identified in Appendix 10-1. **(40 CFR Part 97, Subpart GGGGG)**
6. The permittee shall comply with the provisions of the Cross-State Air Pollution Rule SO2 Group 1 Trading Program, as specified in 40 CFR Part 97, Subpart CCCCC, and identified in Appendix 10-1. **(40 CFR Part 97, Subpart CCCCC)**

**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).

## EUEASTAUXBOILER

**EMISSION UNIT CONDITIONS**

**DESCRIPTION**

East auxiliary boiler nominally rated at 181.4 MMBTU per hour heat input, equipped with a continuous oxygen trim system and fired only with pipeline quality natural gas. Maximum steam output is 150,000 pounds per hour.

**Flexible Group ID:** FGEASTAUXBOILER-MACT

**POLLUTION CONTROL EQUIPMENT**

NA

**I. EMISSION LIMIT(S)**

| **Pollutant** | **Limit** | **Time Period/ Operating Scenario** | **Equipment** | **Monitoring/**  **Testing Method** | **Underlying Applicable Requirements** |
| --- | --- | --- | --- | --- | --- |
| 1. Nitrogen oxides (NOx) | 0.90 lb/MMBTU heat input2 | Hourly | EUEASTAUXBOILER | SC V.1 | **R 336.1201(3)** |
| 1. Nitrogen oxides (NOx) | 202.5 lbs. per hour2 | Hourly | EUEASTAUXBOILER | SC V.1 | **R 336.1201(3)** |
| 1. Visible Emissions | 20% opacity average per 6-minute period except for one 6-minute period per hour of not more than 27%opacity2 | Six-minute average | EUEASTAUXBOILER | SC VI.1 | **R 336.1301(1)(a)** |

**II. MATERIAL LIMIT(S)**

1. The permittee shall burn only pipeline quality natural gas in EUEASTAUXBOILER.2 **(R 336.1205(1)(a))**

**III. PROCESS/OPERATIONAL RESTRICTION(S)**

1. The permittee shall submit within 90 days of permit issuance, and implement and maintain, a malfunction abatement plan (MAP) as described in Rule 911(2), for EUEASTAUXBOILER. The MAP shall, at a minimum, specify the following:
   1. 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.
   2. 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.
   3. 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. **(R 336.1911, R 336.1912(6))**

**IV. DESIGN/EQUIPMENT PARAMETER(S)**

1. The permittee shall install, calibrate, maintain and operate in a manner satisfactory to the District Supervisor, a device to monitor and record the natural gas usage in EUEASTAUXBOILER on a continuous basis.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. The permittee shall verify the NOx emission rates from EUEASTAUXBOILER, by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved USEPA Method listed in:

|  |  |
| --- | --- |
| **Pollutant** | **Test Method Reference** |
| NOx | 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)**

1. Within 180 days after permit issuance, the permittee shall verify the NOx emission rates from EUEASTAUXBOILER at a minimum, every five years from the date of the last test thereafter. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**
2. 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 verify the presence of visible emissions by taking six-minute visible emission readings for EUEASTAUXBOILER pursuant to the schedule outlined in Appendix 3-1.4. The VE reader shall take each visible emission reading during routine operating conditions. Multiple stacks may be observed simultaneously. If visible emissions are present, the procedures outlined in Appendix 3-1.4 shall be implemented and the permittee shall maintain a written record of the corrective actions taken. The permittee may monitor visible emissions for EUEASTAUXBOILER from SV001-025 in a satisfactory manner.2 **(R 336.1301, R 336.1303)**
2. The permittee shall keep, in a satisfactory manner, records of all visible emission readings for EUEASTAUXBOILER. At a minimum, records shall include the date, time, name of observer/reader, whether the reader is certified, and status of visible emissions. The permittee shall keep all records on file at the facility and make them available to the Department upon request.2 **(R 336.1301, R 336.1303)**

3. The permittee shall maintain the following records on a monthly basis:2 **(R 336.1201(3))**

* 1. Hours of operation of EUEASTAUXBOILER.
  2. Total volume of natural gas consumed in EUEASTAUXBOILER.

c. Heat input EUEASTAUXBOILER expressed in MMBTU.

1. The permittee shall maintain, in a satisfactory manner, maintenance records for EUEASTAUXBOILER. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1213(3))**

**See Appendix 3-1**

**VII. REPORTING**

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

1. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked orreceived 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))**
2. 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))**
3. 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 8-1**

**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. SV0001-025 | 1442 | 2202 | **R 336.1201(3)** |

**IX. OTHER REQUIREMENT(S)**

1. 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 DDDDD, as they apply to EUEASTAUXBOILER.2 **(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).

## EUGDF

**EMISSION UNIT CONDITIONS**

**DESCRIPTION**

A new (placed into operation on or after July 1, 1979) gasoline underground storage tank of 2,500-gallon capacity (9.46 cubic meters) for gasoline dispensing at the facility. This emission unit is exempt from the requirements of R 336.1201 per R 336.1284(2)(g)(ii).

**Flexible Group ID:** NA

**POLLUTION CONTROL EQUIPMENT**

Vapor balance system

**I. EMISSION LIMIT(S)**

NA

**II. MATERIAL LIMIT(S)**

NA

**III. PROCESS/OPERATIONAL RESTRICTION(S)**

NA

**IV. DESIGN/EQUIPMENT PARAMETER(S)**

1. EUGDF shall be equipped with a permanent submerged fill pipe. **(R 336.1703(1))**
2. EUGDF shall be controlled by a vapor balance system or an equivalent control system approved by the department. The vapor balance system shall capture displaced gasoline vapor and air via a vapor tight collection line and shall be designed to return not less than 90% by weight of the displaced gasoline vapor from the stationary vessel to the delivery vessel. **(R 336.1703(2))**
3. EUGDF shall be equipped, maintained, or controlled with both of the following: **(R 336.1703(3))**
   1. An interlocking system or procedure to ensure that the vapor tight collection line is connected before any gasoline can be loaded.
   2. A device to ensure that the vapor tight collection line shall close upon disconnection so as to prevent release of gasoline vapor.

**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 copy of the manufacturer’s installation, operating, maintenance instructions, and emission-related specifications throughout the life of EUGDF. **(R 336.1213(3)(b)(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 orreceived 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**

**VIII. STACK/VENT RESTRICTION(S)**

NA

**IX. OTHER REQUIREMENT(S)**

NA

## EUEMGFIREPUMP

**EMISSION UNIT CONDITIONS**

**DESCRIPTION**

This engine is a turbo-charged, air-cooled, 4-cycle, and in-line 6-cylinder diesel compression ignition engine with 8.9-liter total cylinder displacement. Maximum heat input of 1.98 MMBTU/hr. The engine nameplate rates the engine output at 260 HP at 1760 RPM. This engine is subject to 40 CFR Part 60, Subpart IIII and 40 CFR Part 63, Subpart ZZZZ. Per 40 CFR 63.6590(c), this fire pump engine must meet the requirements of 40 CFR Part 63, Subpart ZZZZ by meeting the requirements of 40 CFR Part 60, Subpart IIII. The fire pump engine is exempt from R 336.1201 per R 336.1285(2)(g).

**Flexible Group ID:** NA

**POLLUTION CONTROL EQUIPMENT**

NA

**I. EMISSION LIMIT(S)**

| **Pollutant** | **Limit** | **Time Period/ Operating Scenario** | **Equipment** | **Monitoring/**  **Testing Method** | **Underlying Applicable Requirements** |
| --- | --- | --- | --- | --- | --- |
| 1. NMHC + NOx | 4.0 g/KW-hr.  or  3.0 g/HP-hr | Hourly | EUEMGFIREPUMP | SC V.1  SC VI.3 | **40 CFR 60.4205(c), Table 4 of 40 CFR 60, Subpart IIII** |
| 1. CO | * 1. g/KW-hr   or  2.6 g/HP-hr | Hourly | EUEMGFIREPUMP | SC V.1  SC VI.3 | **40 CFR 60.4205(c),**  **Table 4 of 40 CFR 60, Subpart IIII** |
| 1. PM | 0.20 g/KW-hr.  or  0.15 g/HP-hr | Hourly | EUEMGFIREPUMP | SC V.1  SC VI.3 | **40 CFR 60.4205(c),**  **Table 4 of 40 CFR 60, Subpart IIII** |

**II. MATERIAL LIMIT(S)**

The permittee shall burn only diesel fuel with the maximum sulfur content of 15 ppm (0.0015 percent) by weight, and either minimum cetane index of 40 or maximum aromatic content of 35 volume percent. **(40 CFR 60.4207(b), 40 CFR 1090.305)**

**III. PROCESS/OPERATIONAL RESTRICTION(S)**

1. The permittee must meet the following requirements for EUEMGFIREPUMP: **(40 CFR 60.4211(c))**

a. Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer’s emission-related written instructions, **(40 CFR 60.4211(a)(1))**

b. Change only those emission-related settings that are permitted by the manufacturer, and **(40 CFR 60.4211(a)(2))**

c. Meet the requirements as specified in 40 CFR Part 1068, as they apply. **(40 CFR 60.4211(a)(3))**

1. If the permittee does not install, configure, operate, and maintain each engine and control device according to the manufacturer's emission-related written instructions, or changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate EUEMGFIREPUMP in a manner consistent with good air pollution control practice for minimizing emissions. **(40 CFR 60.4211(g))**
2. EUEMGFIREPUMP may be operated up to 100 hours per calendar year for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, or the insurance company associated with the engine. The permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of EUEMGFIREPUMP beyond 100 hours per calendar year. **(40 CFR 60.4211(f)(2)(i))**
3. EUEMGFIREPUMP 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.3. **(40 CFR 60.4211(f)(3))**

**IV. DESIGN/EQUIPMENT PARAMETER(S)**

1. The permittee must install a non-resettable hour meter, to track the operating hours. **(40 CFR 60.4209(a))**

**V. TESTING/SAMPLING**

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

1. If EUEMGFIREPUMP 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:

1. 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 changing emission-related settings in a way that is not permitted by the manufacturer.
2. 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. 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 60.4211(g), 40 CFR 60.4212)**

1. 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 must keep records, on a monthly basis, of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The permittee must record the time of operation of the engine and the reason the engine was in operation during that time. **(40 CFR 60.4214(b))**
2. The permittee shall maintain, in a satisfactory manner, fuel supplier certification records or fuel sample test data, for diesel fuel oil used in EUEMGFIREPUMP, demonstrating that the fuel meets the requirement of 40 CFR 1090.305. 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. **(****R 336.1213(3), 40 CFR 60.4207(b), 40 CFR 1090.305)**
3. The permittee shall keep, in a satisfactory manner, the following records indicating that EUEMGFIREPUMP meets the applicable emission limitations contained in SC I.1 through I.3: **(40 CFR 60.4211(g)(2))**

a. If the certified engine is being operated in a certified manner, the permittee shall keep manufacturer certification documentation and records of conducted maintenance.

b. If the certified engine is operated in a non-certified manner, the permittee shall keep a maintenance plan, records of conducted maintenance, and the records of testing required in SC V.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 orreceived 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))**

1. 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 notification specifying whether EUEMGFIREPUMP will be operated in a certified or a non-certified manner to the AQD District Supervisor, in writing, within 30 days of switching the manner of operation. **(R 336.1213(3))**

**See Appendix 8-1**

**VIII. STACK/VENT RESTRICTION(S)**

NA

**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, Subpart A and Subpart IIII, as they apply to EUEMGFIREPUMP. **(40 CFR Part 60, Subparts A and IIII)**
2. The permittee shall comply with all applicable requirements of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart A and Subpart ZZZZ for Stationary Reciprocating Internal Combustion Engines. **(40 CFR 63.6590(c)(7), 40 CFR Part 63, Subparts A and ZZZZ)**

# 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** |
| --- | --- | --- |
| FGEASTAUXBOILER-MACT | Requirements for an existing boiler (equipped with a continuous oxygen trim system) 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. | EUEASTAUXBOILER |
| FGCOLDCLEANERS | 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. | EUCOLDCLEANER1  EUCOLDCLEANER2 |

## FGEASTAUXBOILER-MACT

**FLEXIBLE GROUP CONDITIONS**

**DESCRIPTION**

Requirements for an existing boiler (equipped with a continuous oxygen trim system) 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.

**Emission Unit:** EUEASTAUXBOILER

**POLLUTION CONTROL EQUIPMENT**

NA

**I. EMISSION LIMIT(S)**

NA

**II. MATERIAL LIMIT(S)**

NA

**III. PROCESS/OPERATIONAL RESTRICTION(S)**

1. The permittee shall conduct a tune up of each boiler or process heater as specified below. **(40 CFR 63.7500(a)(1), 40 CFR 63.7515(d), Table 3 of 40 CFR Part 63, Subpart DDDDD)**
   1. 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))**
   2. 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))**
   3. 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))**
   4. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOX requirement to which the unit is subject. **(40 CFR 63.7540(a)(10)(iv))**
   5. 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))**
2. 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))**
3. The permittee shall conduct a tune-up of each emission unit that has an oxygen trim system installed in FGEASTAUXBOILER-MACT of the burner(s) and combustion controls, as applicable, every 5 years as specified in 40 CFR 63.7540(a)(10)(i) through (vi). **(40 CFR 63.7500(d), 40 CFR 63.7540(a)(12), Table 3 of 40 CFR Part 63, Subpart DDDDD)**
   1. Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up. **(40 CFR 63.7515(d))**
   2. The permittee may delay the burner inspection 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))**
   3. 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))**
4. At all times, the permittee must operate and maintain each existing 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, an annual tune-up report containing the information listed below.
4. 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))**
5. A description of any corrective actions taken as a part of the tune-up. **(40 CFR 63.7540(a)(10)(vi)(B))**
6. 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))**
7. 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))**
8. 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))**
9. 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 orreceived 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 orreceived 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.
5. Company name and address. **(40 CFR 63.7545(f)(1))**
6. Identification of the affected unit. **(40 CFR 63.7545(f)(2))**
7. 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))**
8. Type of alternative fuel that the permittee intends to use. **(40 CFR 63.7545(f)(4))**
9. Dates when the alternative fuel use is expected to begin and end. **(40 CFR 63.7545(f)(5))**
10. 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](http://www.epa.gov/cdx)). **(40 CFR 63.7550(b))**
11. The permittee must submit a compliance report containing the following information.
    1. Company and Facility name and address. **(40 CFR 63.7550(c)(5)(i))**
    2. Process unit information, emissions limitations, and operating parameter limitations. **(40 CFR 63.7550(c)(5)(ii))**
    3. Date of report and beginning and ending dates of the reporting period. **(40 CFR 63.7550(c)(5)(iii))**
    4. 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))**
    5. 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))**
12. 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](http://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 8-1**

**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)**

## FGCOLDCLEANERS

**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:** EUCOLDCLEANER1, EUCOLDCLEANER2

**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).

1. 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))**
2. 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))**
3. 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**

**VIII. STACK/VENT RESTRICTION(S)**

NA

**IX. OTHER REQUIREMENT(S)**

NA

# E. NON-APPLICABLE REQUIREMENTS

At the time of the ROP issuance, the AQD has determined that the requirements identified in the table below are not applicable to the specified emission unit(s) and/or flexible group(s). This determination is incorporated into the permit shield provisions set forth in the General Conditions in Part A pursuant to Rule 213(6)(a)(ii). If the permittee makes a change that affects the basis of the non-applicability determination, the permit shield established as a result of that non-applicability decision is no longer valid for that emission unit or flexible group.

| **Emission Unit/Flexible**  **Group ID** | **Non-Applicable Requirement** | **Justification** |
| --- | --- | --- |
| EUBOILER1 | National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters promulgated in 40 CFR Part 63, Subpart DDDDD, and the National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units promulgated in 40 CFR Part 63, Subpart UUUUU. | EPA reviewed the applicability determination request submitted on August 22, 2023 by DTE and determined that the electric generating unit (EGU) identified as EUBOILER1 is not subject to 40 CFR Part 63, Subpart DDDDD as well as Subpart UUUUU. While EUBOILER1 is not subject to Subparts DDDDD and UUUUU, given the information provided to EPA, DTE must ensure that EUBOILER1 remains within the definition of a “natural gas-fired electric utility steam generating unit” as defined under 40 CFR 63.10042 of Subpart UUUUU and firing at least 85 percent natural gas on an annual heat input basis. |

|  |
| --- |
| **APPENDICES** |

## Appendix 1-1. 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 | CO2e | 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 | H2S | 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 | NOx | 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 | SO2 | 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 2-1. 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 3-1. Monitoring Requirements

The following monitoring procedures, methods, or specifications provide the details for the monitoring requirements identified and referenced in EUBOILER1 and EUEASTAUXBOILER.

**3-1.1. Fuel Oil Sulfur Monitoring**

For EUBOILER1, the permittee shall maintain a complete record of fuel oil specifications and/or fuel analysis for each delivery, or storage tank, of fuel oil. 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.

**3-1.2. Continuous Emission Rate Monitoring System (CEMS/CERMS)**

1. Within 60 days of completion of testing, the permittee shall submit to the AQD two copies of the final report demonstrating the CEMS/CERMS complies with the requirements of the corresponding Performance Specifications (PS) in the following table.

| **Pollutant** | **Applicable**  **PS** |
| --- | --- |
| NOx | 2 |
| SO2 | 2 |
| CO2 | 3 |
| CERMS | 6 |

2. The span value shall be 2.0 times the lowest emission standard or as specified in the federal regulations.

3. The CEMS/CERMS shall be installed, calibrated, maintained, and operated in accordance with the procedures set forth in 40 CFR 60.13 and PS 6 of Appendix B to 40 CFR Part 60.

4. Each calendar quarter, the permittee shall perform the Quality Assurance Procedures of the CEMS/CERMS 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).

5. 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 emission limits. 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/CERMS downtime and corrective action.

c. A report of the total operating time of the EUBOILER1 during the reporting period.

d. A report of any periods that the CEMS/CERMS exceeds the instrument range.

e. If no exceedances or CEMS/CERMS 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.

**3-1.3. Continuous Opacity Monitoring System (COMS) Requirements**

1. The span value shall be 2.0 times the lowest emission standard or as specified in the federal regulations.
2. The COMS shall be installed, calibrated, maintained, and operated in accordance with the procedures set forth in 40 CFR 60.13 and PS 1 of Appendix B, 40 CFR Part 60.
3. The permittee shall perform the COMS quality assurance set forth in 40 CFR Part 60, Appendix F, Procedure 3, or a method acceptable to AQD. Within 30 days after the completion of the Procedure 3, the results shall be submitted to the AQD.
4. 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 Air Quality Division, 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:
5. A report of each exceedance above emission limit . This includes the date, time, magnitude, cause, and corrective actions of all occurrences during the reporting period.
6. A report of all periods of COMS downtime and corrective action.
7. A report of the total operating time of the EUBOILER1 during the reporting period.
8. If no exceedances or COMS downtime occurred during the reporting period, the permittee shall report that fact.

All monitoring data is shall be kept on file for a period of at least five (5) years and made available to the AQD upon request.

**3-1.4. Auxiliary Boilers Visible Emission Procedure**

The permittee shall perform a non-certified visible emission observation of the Auxiliary Boiler common stack when an Auxiliary Boiler is combusting oil or natural gas according to the following operation schedule:

|  |  |
| --- | --- |
| Number of Operating  Hours per Week | Number of Observations  per week |
| 0 - 12 | 0 |
| 12 – 36 | 1 |
| 36 – 60 | 2 |
| 60 – 84 | 3 |
| Etc. | +1, to a maximum of 7 |

Upon noting visible emissions during the non-certified visible emissions observation specified in EUEASTAUXBOILER SC VI.1, the permittee shall initiate any of the following corrective actions until visible emissions return to permissible limits:

1. Conduct a certified visible emissions observation in compliance with EPA Method 9 -- Visual Determination of the Opacity of Emissions from Stationary Sources (40 CFR Part 60, Appendix A-4) to determine if the six-minute average emissions exceeded the 20 percent opacity limit (except for one, six-minute period of 27 percent once per hour).

2. Inspect auxiliary boiler and operating parameters for possible cause of visible emissions and implement changes (if any).

3. Perform another non-certified visible emission observation of the exhaust stack to determine if visible emissions have stopped.

Once the visible emissions have stopped or are shown to be within permissible limits by certified Method 9 reading, then the corrective action situation is complete. If the corrective actions are not sufficient to reduce the visible emissions to permissible levels, the boiler shall be shut down.

## Appendix 4-1. 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. Testing Procedures

There are no specific testing requirement plans or procedures for this ROP. Therefore, this appendix is not applicable.

## Appendix 6-1. 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-B6145-2018. 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-B6145-2018 is being reissued as Source-Wide PTI No. MI-PTI-B6145-2024.

|  |  |  |  |
| --- | --- | --- | --- |
| **Permit to Install Number** | **ROP Revision**  **Application Number** | **Description of Equipment or Change** | **Corresponding Emission Unit(s) or**  **Flexible Group(s)** |
| NA | NA | NA | NA |

## Appendix 7-1. Emission Calculations

There are no specific emission calculations to be used for this ROP. Therefore, this appendix is not applicable.

## Appendix 8-1. 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 9-1. Acid Rain Permit

**PHASE II ACID RAIN PERMIT**

**Permit No.** **MI-AR-6035-2024**

|  |  |
| --- | --- |
| Permittee | Greenwood Energy Center |
| Address | 7000 Kilgore Road, Avoca, MI |
| SRN | B6145 |
| Plant Code | 6035 |
| Issue Date | June 30, 2024**l** |
| 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-B6145-2024 |

**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)(q).

For further information contact:

Mr. Brian Carley

Environmental Quality Specialist

Michigan Department of Environment, Great Lakes, and Energy

Air Quality Division, Jackson District Office

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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 | SO2 allowances | 541 | 541 | 541 | 541 | 541 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | 2024 | 2025 | 2026 | 2027 | 2028 |
| Unit CTG 11-1 | SO2 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 | SO2 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 | SO2 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 August 23, 2022*

Table

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## Appendix 10-1. 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 NOX Annual Trading Program, CSAPR NOX Ozone Season Group 3 Trading Program, and CSAPR SO2 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 SO2 monitoring) or 40 CFR Part 75, Subpart H (for NOX 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: Unit 1 {EUBOILER1} | |
| Parameter | Monitoring Methodology |
| SO2 | CEMS requirements pursuant to 40 CFR Part 75, Subpart B |
| NOX | CEMS requirements pursuant to 40 CFR Part 75, Subpart H |
| Heat Input | CEMS requirements pursuant to 40 CFR Part 75, Subpart B and 40 CFR Part 75, Subpart H |

|  |  |
| --- | --- |
| Unit ID: CTG 11-1 {EUCTG11-1} | |
| Parameter | Monitoring Methodology |
| SO2 | Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D |
| NOX | 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: CTG 11-2 {EUCTG11-2} | |
| Parameter | Monitoring Methodology |
| SO2 | Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D |
| NOX | 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: CTG 12-1 {EUCTG12-1} | |
| Parameter | Monitoring Methodology |
| SO2 | Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D |
| NOX | 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 NOX Annual Trading Program), 97.1030 through 97.1035 (CSAPR NOX Ozone Season Group 3 Trading Program), and 97.630 through 97.635 (CSAPR SO2 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 NOX Annual Trading Program), 97.1035 (CSAPR NOX Ozone Season Group 3 Trading Program), and/or 97.635 (CSAPR SO2 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), 97.1030 through 97.1034 (CSAPR NOX Ozone Season Group 3 Trading Program), and/or 97.630 through 97.634 (CSAPR SO2 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), 97.1035 (CSAPR NOX Ozone Season Group 3 Trading Program), and/or 97.635 (CSAPR SO2 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), 97.1030 through 97.1034 (CSAPR NOX Ozone Season Group 3 Trading Program), and 97.630 through 97.634 (CSAPR SO2 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)**

1. **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.

1. **Emissions monitoring, reporting, and recordkeeping requirements.**
2. 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).
3. 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.
4. **NOX emissions requirements.**
5. CSAPR NOX Annual emissions limitation.
   1. 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.
   2. 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:
      1. 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
      2. 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.
6. CSAPR NOX Annual assurance provisions.
   1. 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 statefor 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 statefor such control period exceed the state assurance level.
   2. 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.
   3. 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 stateduring 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).
   4. 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 NOXemissions from the CSAPR NOX Annual units at CSAPR NOX Annual sources in the state and Indian country within the borders of such stateduring a control period exceeds the common designated representative’s assurance level.
   5. 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,
      1. The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
      2. 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.
7. Compliance periods.
   1. 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.
   2. 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.
8. Vintage of allowances held for compliance.
   1. 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.
   2. 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.
9. 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.
10. 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:
    1. Such authorization shall only be used in accordance with the CSAPR NOX Annual Trading Program; and
    2. 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.
11. Property right. A CSAPR NOX Annual allowance does not constitute a property right.
12. **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).
13. **Additional recordkeeping and reporting requirements.**
14. 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.
    1. 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.
    2. All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart AAAAA.
    3. 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.
15. 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 NOX 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.
16. **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.
17. **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.

1. **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 97.1006)**

1. **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.

1. **Emissions monitoring, reporting, and recordkeeping requirements.**
2. 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).
3. 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.
4. **NOX emissions requirements.**
5. CSAPR NOX Ozone Season Group 3 emissions limitation.
   1. 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.
   2. If total NOX 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:
      1. 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
      2. 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.
6. CSAPR NOX Ozone Season Group 3 assurance provisions.
   1. 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 stateexceed 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—
      1. 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 statefor 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
      2. 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 statefor such control period exceed the state assurance level.
   2. 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.
   3. 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 stateduring 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).
   4. 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 stateduring 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 stateduring a control period exceeds the common designated representative’s assurance level.
   5. 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,
      1. The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
      2. 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.
7. Compliance periods.
   1. 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.
   2. 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.
8. Vintage of allowances held for compliance.
   1. 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.
   2. 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.
9. 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.
10. 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:
    1. Such authorization shall only be used in accordance with the CSAPR NOX Ozone Season Group 3 Trading Program; and
    2. 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.
11. Property right. A CSAPR NOX Ozone Season Group 3 allowance does not constitute a property right.
12. **Title V permit revision requirements*.***
13. 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.
14. 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).
15. **Additional recordkeeping and reporting requirements*.***
16. 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.
    1. 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.
    2. All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart GGGGG.
    3. 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.
17. 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.
18. **Liability*.***
19. 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.
20. 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.
21. **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.

1. **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 SO2 Group 1 Trading Program requirements (40 CFR 97.606)**

1. **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.

1. **Emissions monitoring, reporting, and recordkeeping requirements.**
2. The owners and operators, and the designated representative, of each CSAPR SO2 Group 1 source and each CSAPR SO2 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).
3. The emissions data determined in accordance with 40 CFR 97.630 through 97.635 shall be used to calculate allocations of CSAPR SO2 Group 1 allowances under 40 CFR 97.611(a)(2) and (b) and 97.612 and to determine compliance with the CSAPR SO2 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.
4. **SO2 emissions requirements.**
5. CSAPR SO2 Group 1 emissions limitation.
   1. As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR SO2 Group 1 source and each CSAPR SO2 Group 1 unit at the source shall hold, in the source's compliance account, CSAPR SO2 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 SO2 emissions for such control period from all CSAPR SO2 Group 1 units at the source.
   2. If total SO2 emissions during a control period in a given year from the CSAPR SO2 Group 1 units at a CSAPR SO2 Group 1 source are in excess of the CSAPR SO2 Group 1 emissions limitation set forth in paragraph (c)(1)(i) above, then:
      1. The owners and operators of the source and each CSAPR SO2 Group 1 unit at the source shall hold the CSAPR SO2 Group 1 allowances required for deduction under 40 CFR 97.624(d); and
      2. The owners and operators of the source and each CSAPR SO2 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.
6. CSAPR SO2 Group 1 assurance provisions.
   1. If total SO2 emissions during a control period in a given year from all CSAPR SO2 Group 1 units at CSAPR SO2 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 SO2 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 SO2 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—
      1. The quotient of the amount by which the common designated representative’s share of such SO2 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 statefor such control period, by which each common designated representative’s share of such SO2 emissions exceeds the respective common designated representative’s assurance level; and
      2. The amount by which total SO2 emissions from all CSAPR SO2 Group 1 units at CSAPR SO2 Group 1 sources in the state and Indian country within the borders of such statefor such control period exceed the state assurance level.
   2. The owners and operators shall hold the CSAPR SO2 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.
   3. Total SO2 emissions from all CSAPR SO2 Group 1 units at CSAPR SO2 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 SO2 emissions exceed the sum, for such control period, of the state SO2 Group 1 trading budget under 40 CFR 97.610(a) and the state’s variability limit under 40 CFR 97.610(b).
   4. It shall not be a violation of 40 CFR Part 97, Subpart CCCCC or of the Clean Air Act if total SO2 emissions from all CSAPR SO2 Group 1 units at CSAPR SO2 Group 1 sources in the state and Indian country within the borders of such stateduring a control period exceed the state assurance level or if a common designated representative’s share of total SO2 emissions from the CSAPR SO2 Group 1 units at CSAPR SO2 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.
   5. To the extent the owners and operators fail to hold CSAPR SO2 Group 1 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,
      1. The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
      2. Each CSAPR SO2 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.
7. Compliance periods.
   1. A CSAPR SO2 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.
   2. A CSAPR SO2 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.
8. Vintage of allowances held for compliance.
   1. A CSAPR SO2 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 SO2 Group 1 allowance that was allocated for such control period or a control period in a prior year.
   2. A CSAPR SO2 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 SO2 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.
9. Allowance Management System requirements. Each CSAPR SO2 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.
10. Limited authorization. A CSAPR SO2 Group 1 allowance is a limited authorization to emit one ton of SO2 during the control period in one year. Such authorization is limited in its use and duration as follows:
    1. Such authorization shall only be used in accordance with the CSAPR SO2 Group 1 Trading Program; and
    2. 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.
11. Property right. A CSAPR SO2 Group 1 allowance does not constitute a property right.
12. **Title V permit revision requirements.**
13. No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR SO2 Group 1 allowances in accordance with 40 CFR Part 97, Subpart CCCCC.
14. 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).
15. **Additional recordkeeping and reporting requirements.**
16. Unless otherwise provided, the owners and operators of each CSAPR SO2 Group 1 source and each CSAPR SO2 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.
    1. The certificate of representation under 40 CFR 97.616 for the designated representative for the source and each CSAPR SO2 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.
    2. All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart CCCCC.
    3. 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 SO2 Group 1 Trading Program.
17. The designated representative of a CSAPR SO2 Group 1 source and each CSAPR SO2 Group 1 unit at the source shall make all submissions required under the CSAPR SO2 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.
18. **Liability.**
19. Any provision of the CSAPR SO2 Group 1 Trading Program that applies to a CSAPR SO2 Group 1 source or the designated representative of a CSAPR SO2 Group 1 source shall also apply to the owners and operators of such source and of the CSAPR SO2 Group 1 units at the source.
20. Any provision of the CSAPR SO2 Group 1 Trading Program that applies to a CSAPR SO2 Group 1 unit or the designated representative of a CSAPR SO2 Group 1 unit shall also apply to the owners and operators of such unit.
21. **Effect on other authorities.**

No provision of the CSAPR SO2 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 SO2 Group 1 source or CSAPR SO2 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 2 – COMBUSTION TURBINE GENERATORS

# 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))**
   1. 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.
   2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the ROP.
   3. Inspect, at reasonable times, any of the following:
      1. Any stationary source.
      2. Any emission unit.
      3. Any equipment, including monitoring and air pollution control equipment.
      4. Any work practices or operations regulated or required under the ROP.
   4. 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

1. 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)**
2. 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

1. 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))**
   1. A 6-minute average of 20% opacity, except for one 6-minute average per hour of not more than 27% opacity.
   2. A limit specified by an applicable federal new source performance standard.

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

1. 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:
   1. Injurious effects to human health or safety, animal life, plant life of significant economic value, or property.1 **(R 336.1901(a))**
   2. Unreasonable interference with the comfortable enjoyment of life and property.1**(R 336.1901(b))**

## Testing/Sampling

1. 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)**
2. 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))**
3. 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

1. 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))**
   1. The date, location, time, and method of sampling or measurements.
   2. The dates the analyses of the samples were performed.
   3. The company or entity that performed the analyses of the samples.
   4. The analytical techniques or methods used.
   5. The results of the analyses.
   6. The related process operating conditions or parameters that existed at the time of sampling or measurement.
2. 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

1. 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))**
2. 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/](https://gcc02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fcdx.epa.gov%2F&data=05%7C01%7CORENTK%40michigan.gov%7Cf851657317c1495e6aab08dbf0f27fc7%7Cd5fb7087377742ad966a892ef47225d1%7C0%7C0%7C638368696538391429%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=g47mBhO2BDhi5HkAFttL1hXx%2B3d7TH9tHB6UHijdGXc%3D&reserved=0)), 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))**
3. 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))**
4. 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))**
   1. 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).
   2. 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.
   3. 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.
5. 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))**
   1. 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.
   2. 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.
6. 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))**
7. 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))**
8. 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

1. 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))**
   1. The applicable requirements are included and are specifically identified in the ROP.
   2. 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.

1. Nothing in this ROP shall alter or affect any of the following:
   1. 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))**
   2. 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))**
   3. The applicable requirements of the acid rain program, consistent with Section 408(a) of the CAA. **(R 336.1213(6)(b)(iii))**
2. The ability of the USEPA to obtain information from a source pursuant to Section 114 of the CAA. **(R 336.1213(6)(b)(iv))**
3. The permit shield shall not apply to provisions incorporated into this ROP through procedures for any of the following:
   1. Operational flexibility changes made pursuant to Rule 215. **(R 336.1215(5))**
   2. Administrative Amendments made pursuant to Rule 216(1)(a)(i)-(iv). **(R 336.1216(1)(b)(iii))**
   3. 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))**
   4. Minor Permit Modifications made pursuant to Rule 216(2). **(R 336.1216(2)(f))**
   5. State-Only Modifications made pursuant to Rule 216(4) until the changes have been approved by the department. **(R 336.1216(4)(e))**
4. 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

1. 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)**
2. 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))**
3. 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))**
4. 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

1. A ROP shall be reopened by the department prior to the expiration date and revised by the department under any of the following circumstances:
   1. 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))**
   2. If additional requirements pursuant to Title IV of the CAA become applicable to this stationary source. **(R 336.1217(2)(a)(ii))**
   3. 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))**
   4. If the department determines that the ROP must be revised to ensure compliance with the applicable requirements. **(R 336.1217(2)(a)(iv))**

## Renewals

1. 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

1. 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.
2. 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

1. 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).
2. 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):
   1. June 21, 1999,
   2. Three years after the date on which a regulated substance is first listed under 40 CFR 68.130, or
   3. The date on which a regulated substance is first present above a threshold quantity in a process.
3. 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.
4. 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

1. 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)

1. 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))**
2. 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)**
3. 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)**
4. 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:**

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

2This 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** |
| --- | --- | --- | --- |
| EUCTG11-1 | Combustion Turbine Generator Peaking Unit No. 11-1 (82.4 MW). Natural gas fired, simple-cycle turbine with dry low-NOxcombustor. | 01-01-1998/  10-23-2008 | FGCTGS |
| EUCTG11-2 | Combustion Turbine Generator Peaking Unit No. 11-2 (82.4 MW). Natural gas fired, simple-cycle turbine with dry low-NOx combustor. | 01-01-1998/  10-23-2008 | FGCTGS |
| EUCTG12-1 | Combustion Turbine Generator Peaking Unit No. 12-1 (82.4 MW). Natural gas fired, simple-cycle turbine with dry low-NOx combustor. | 01-01-1998/  10-23-2008 | FGCTGS |

# 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** |
| --- | --- | --- |
| FGCTGS | Three natural gas-fired combustion turbine generator peaking units, each nominally rated at 82.4 MW (960 MMBTU/hr) at ISO conditions and equipped with dry low-NOx combustors. | EUCTG11-1  EUCTG11-2  EUCTG12-1 |

## FGCTGS

**FLEXIBLE GROUP CONDITIONS**

**DESCRIPTION**

Three natural gas-fired combustion turbine generator peaking units, each nominally rated at 82.4 MW (960 MMBTU/hr) at ISO conditions and equipped with dry low-NOx combustors.

**Emission Units:** EUCTG11-1, EUCTG11-2, EUCTG12-1

**POLLUTION CONTROL EQUIPMENT**

The turbines are equipped with dry low-NOx combustors.

**I. EMISSION LIMIT(S)**

| **Pollutant** | **Limit** | **Time Period/ Operating Scenario** | **Equipment** | **Monitoring/**  **Testing Method** | **Underlying Applicable Requirements** |
| --- | --- | --- | --- | --- | --- |
| 1. NOx | 9 ppm dry gas basis at 15% O2 and 100% load\*,2 | Averaged over operating hours in a calendar day | Each turbine | SC V.1,  SC V.2 | **R 336.1205(1)(a) and (b)**  **40 CFR 52.21(j)**  **40 CFR 60.332(a)(1)** |
| 1. NOx | 100 ppmv at 15% O2, dry | Hourly | Each turbine | SC V.1,  SC V.2 | **40 CFR 60.332(a)(1)** |
| 1. NOx | 522 tons per year\*,2 | 12-month rolling total determined at the end of each calendar month | FGCTGS | SC VI.3 | **R 336.1205(1)(a) and (b)**  **40 CFR 52.21(j)** |
| 1. CO | 25 ppm by volume, dry gas basis at 15%O2\*,2 | Averaged over operating hours in a calendar day | Each turbine | SC V.2,  SC V.3 | **R 336.1205(1) and (3)**  **40 CFR 52.21** |
| 1. CO | 856 tons per year\*,2 | 12-month rolling total determined at the end of each calendar month | FGCTGS | SC VI.3 | **R 336.1205(1) and (3)**  **40 CFR 52.21** |
| 1. Formaldehyde (HCHO) | 9.9 tons per year\*,2 | 12-month rolling total determined at the end of each calendar month | FGCTGS | SC V.6  SC VI.3 | **R 336.1205(2) R 336.1225** |
| 1. Visible emissions | 10% six-minute average opacity\*,2 | At least once every 1,812 hours of operation | Each turbine | SC V.5 | **R 336.1301(1)(c),**  **40 CFR 52.21** |
| 1. PM10 | 9.0 pounds per hour\*,2 | Averaged over operating hours in a calendar day | Each turbine | SC V.6  SC V.8 | **R 336.1205(1)(a) and (b)**  **40 CFR 52.21(j)** |
| 1. PM10 | 102 tons per year\*,2 | 12-month rolling total determined at the end of each calendar month | FGCTGS | SC V.6  SC VI.3 | **R 336.1205(1)(a) and (b)**  **40 CFR 52.21** |

**\***These emission limits do not apply during startup, shutdown, or malfunction events.

**II. MATERIAL LIMIT(S)**

| **Material** | **Limit** | **Time Period/ Operating Scenario** | **Equipment** | **Monitoring/**  **Testing Method** | **Underlying Applicable Requirements** |
| --- | --- | --- | --- | --- | --- |
| 1. Natural gas | 27,300 million cubic feet2 | 12-month rolling total determined at the end of each calendar month | FGCTGS | SC VI.1 | **R 336.1205(1)(a) and (b) R 336.1225**  **40 CFR 52.21(j)** |

1. No permittee subject to the provisions of 40 CFR Part 60, Subpart GG shall burn in any stationary gas turbine in FGCTGS any fuel which contains total sulfur in excess of 0.8 percent by weight (8000 ppmw). **(40 CFR 60.333(b))**

**III. PROCESS/OPERATIONAL RESTRICTION(S)**

1. The permittee shall minimize the NOx, CO and PM10 emission rates during startup, shutdown, and malfunction conditions in accordance with the approved Emission Minimization Plan. The plan shall incorporate procedures recommended by the equipment manufacturer as well as incorporating standard industry practices. Alternate 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(j))**
2. The total hours for startup and shutdown for FGCTGS 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 conditions are 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))**
3. The permittee shall not operate FGCTGS 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 burn only pipeline quality natural gas in FGCTGS.2 **(R** **336.1225, R 336.1702(a), 40 CFR 60.333(b), 40 CFR 52.21)**
5. The permittee shall submit within 90 days of permit issuance, and implement and maintain, a malfunction abatement plan (MAP) as described in Rule 911(2), for each emission unit in FGCTGS. The MAP shall, at a minimum, specify the following:
   1. 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.
   2. 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.
   3. 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. **(R 336.1911, R 336.1912(6))**

**IV. DESIGN/EQUIPMENT PARAMETER(S)**

1. The permittee shall equip and maintain each turbine included in FGCTGS with a dry low-NOx combustor.2 **(R 336.1910, 40 CFR 52.21)**

**V. TESTING/SAMPLING**

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

1. In accordance with 40 CFR 75, Appendix E, the permittee shall retest the NOx emission rate of each turbine at least once every 20 calendar quarters. The permittee shall perform NOx testing for at least four (4) approximately equally spaced operating load points, ranging from the maximum operating load to the minimum operating load. All testing shall be in accordance with the applicable federal Reference Methods.2 **(40 CFR 60.8, 40 CFR 60.335, 40 CFR Part 60, Subpart GG, 40 CFR Part 60, Appendix A, 40 CFR 75, Appendix E, 40 CFR 75)**
2. The permittee shall verify NOx and CO emission rates from each turbine in FGCTGS 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** |
| NOx | 40 CFR Part 60, Appendix A |
| CO | 40 CFR Part 60, Appendix A |

In accordance with 40 CFR 75, Appendix E, the permittee shall retest the NOx emission rate of each turbine at least once every 12 calendar quarters. The permittee shall perform NOx and CO testing for at least four (4) approximately equally spaced operating load points, ranging from the maximum operating load to the minimum operating load. 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, 40 CFR 60.335)**

1. The permittee shall verify CO emission rates from each turbine in accordance with Department requirements. Testing must be done for each turbine in conjunction with NOx testing and under the same operating load and test averaging period requirements.2 **(R 336.2001, R 336.2003, R 336.2004)**
2. Compliance with the visible emissions limit shall be determined at least once per 1,812 hours of operation per turbine using Federal Reference Method 9 (40 CFR Part 60, Appendix A).2 **(R** **336.1301, 40 CFR 52.21)**
3. Emission factors developed from previous formaldehyde and PM10 stack test will be used along with hourly fuel usage data to demonstrate compliance with annual limits.2 **(R** **336.2001, R** **336.2003, R** **336.2004)**
4. Within 180 days after permit issuance, the permittee shall verify formaldehyde and PM10 emission rates from each turbine or a representative turbine in FGCTGS by testing at owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved USEPA Method listed in:

|  |  |
| --- | --- |
| **Pollutant** | **Test Method Reference** |
| PM10 | 40 CFR Part 51, Appendix M |
| HAPs | 40 CFR Part 63, 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)**

1. The permittee shall verify the NOx and CO emission rates from FGCTGS, at a minimum, every three years from the date of the last test. **(R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)**
2. The permittee shall verify the formaldehyde and PM10 emission rates from each turbine or a representative turbine in FGCTGS, 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)**
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 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))**

The permittee shall continuously monitor, and record hourly, the natural gas usage from each turbine included in FGCTGS in a manner and with instrumentation acceptable to the District Supervisor, Air Quality Division.2 **(R 336.1205(1)(a) and (b), 40 CFR 52.21)**

The permittee shall record the total number of start-up and shutdown hours per month for each turbine included in FGCTGS. Startup and shutdown hours are defined as those periods of time in which the turbine is not operating in a premix mode of operation.2 **(R 336.1201(3))**

The permittee shall keep records, for each turbine included in FGCTGS, of the calendar day average, monthly, and previous 12-month emission calculations for the following pollutants:

NOx **(R** **336.1205(1)(a) and (b), 40 CFR 52.21, 40 CFR Part 60, Subpart GG)**

CO **(R** **336.1205(1)(a) and (b), 40 CFR 52.21)**

PM10 **(R** **336.1205(1)(a) and (b), 40 CFR 52.21)**

HCHO **(R** **336.1205(2), R** **336.1225)**

All such records and calculations are for the purpose of compliance demonstration shall be kept on file and made available to the AQD upon request.2

Results of the visible emission readings shall be kept on file and made available to the AQD upon request.2 **(R** **336.1301, 40 CFR 52.21)**

The permittee shall monitor and record the capacity factor of each turbine included in FGCTGS each calendar year. If the capacity factor for each individual turbine exceeds 20 percent in any calendar year, or exceeds 10 percent averaged over the previous three calendar years, a continuous emission monitor for NOx must be installed, certified and operated no later than December 31 of the following calendar year. These records shall be kept on file and made available to the AQD upon request.2 **(40 CFR 52.21, 40 CFR 75.12(c)(2))**

The permittee shall keep records in a satisfactory manner, of the total sulfur content of the fuel being fired in FGCTGS. Records demonstrating that the fuel meets the definition of natural gas in 40 CFR 60.331(u) include 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. These records shall be kept on file and made available to the AQD upon request.  **(40 CFR 60.334(h)(1) and (3))**

The permittee shall maintain, in a satisfactory manner, maintenance records for each emission unit in FGCTGS. The permittee shall keep all records on file and make them available to the Department upon request. **(R 336.1213(3))**

If the permittee elects under 40 CFR 60.334(f) to monitor combustion parameters or parameters indicative of proper operation of NOx emission controls, the appropriate parameters shall be continuously monitored and recorded during each run of the initial (and subsequent) performance tests, to establish acceptable operating ranges, for purposes of the parameter monitoring plan for the affected unit, as specified in 40 CFR 60.334(g). **(R 336.1213(3), 40 CFR 60.335(b)(8))**

**See Appendices 3-2 and 7-2**

**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 orreceived 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 orreceived by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

1. 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 8-2**

**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-CTG-111 | 228 x 1082 | 562 | **R 336.1225**  **40 CFR 52.21(c) and (d)** |
| 1. SV-CTG-112 | 228 x 1082 | 562 | **R 336.1225**  **40 CFR 52.21(c) and (d)** |
| 1. SV-CTG-121 | 228 x 1082 | 562 | **R 336.1225**  **40 CFR 52.21(c) and (d)** |

**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 GG. **(40 CFR Part 60, Subparts A and GG)**
2. 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 63.6090(b)(4), 40 CFR Part 63, Subparts A and YYYY)**
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-6035-2024 is hereby incorporated into this ROP as Appendix 9-2. **(****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 NOX Annual Trading Program, as specified in 40 CFR Part 97, Subpart AAAAA, and identified in Appendix 10-2. **(40 CFR Part 97, Subpart AAAAA)**
6. The permittee shall comply with the provisions of the Cross-State Air Pollution Rule NOX Ozone Season Group 3 Trading program, as specified in 40 CFR Part 97, Subpart GGGGG, and identified in Appendix 10-2. **(40 CFR Part 97, Subpart GGGGG)**
7. The permittee shall comply with the provisions of the Cross-State Air Pollution Rule SO2 Group 1 Trading Program, as specified in 40 CFR Part 97, Subpart CCCCC, and identified in Appendix 10-2. **(40 CFR Part 97, Subpart CCCCC)**

**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. 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 | CO2e | 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 | H2S | 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 | NOx | 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 | SO2 | 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. 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. Monitoring Requirements

Specific monitoring requirement procedures, methods or specifications 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 4-2. 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. 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. 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-B6145-2018. 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-B6145-2018 is being reissued as Source-Wide PTI No. MI-PTI-B6145-2024.

|  |  |  |  |
| --- | --- | --- | --- |
| **Permit to Install Number** | **ROP Revision**  **Application Number** | **Description of Equipment or Change** | **Corresponding Emission Unit(s) or**  **Flexible Group(s)** |
| NA | NA | NA | NA |

## Appendix 7-2. 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 FGCTGS and as described in the “Continuous Compliance Protocol” for Greenwood the CTG Units (Rev. July 12, 1999).

Natural gas usage is monitored continuously but recorded once per hour and tracked on a monthly basis.

The NOx 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, PM10 and formaldehyde are developed in lbs. pollutant/million cubic feet of natural gas for each corresponding load specified in stack test protocol. Emission factors for each pollutant are calculated using the emissions recorded during the last representative stack test on a pollutant-specific basis. The emission factors, along with the fuel monitoring requirement, shall be applied to each hour to ensure compliance with PM10 calendar day average and CO, PM10 and formaldehyde rolling 12-month period emission limits.

From stack testing at the four load points, correlation curves are developed from NOx emissions (lb/MMBTU) and heat input (MMBTU/hr) for each CTG. Consistent with Part 75, Appendix E, a NOx emission rate (lb/MMBTU) is applied to each operating hour. Each QA-QC validated hour either has the NOx emission rate from the correlation curve applied or the appropriate substitute NOx emission rate applied if the hour is outside operational and control equipment parameters, per Appendix E, section 2.5.2. The product of the hourly NOx emission rates and heat inputs are aggregated monthly to report the tons of NOx on a rolling 12-month basis.

## Appendix 8-2. 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. Acid Rain Permit

**PHASE II ACID RAIN PERMIT**

**Permit No. MI-AR-6035-2024**

|  |  |
| --- | --- |
| Permittee | Greenwood Energy Center |
| Address | 7000 Kilgore Road, Avoca, MI |
| SRN | B6145 |
| Plant Code | 6035 |
| Issue Date | June 30, 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-B6145-2024 |

**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)(q).

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 | SO2 allowances | 541 | 541 | 541 | 541 | 541 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | 2024 | 2025 | 2026 | 2027 | 2028 |
| Unit CTG 11-1 | SO2 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 | SO2 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 | SO2 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 August 23, 2022*

Table

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## Appendix 10-2. 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 NOX Annual Trading Program, CSAPR NOX Ozone Season Group 3 Trading Program, and CSAPR SO2 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 SO2 monitoring) or 40 CFR Part 75, Subpart H (for NOX 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: Unit 1 {EUBOILER1} | |
| Parameter | Monitoring Methodology |
| SO2 | CEMS requirements pursuant to 40 CFR Part 75, Subpart B |
| NOX | CEMS requirements pursuant to 40 CFR Part 75, Subpart H |
| Heat Input | CEMS requirements pursuant to 40 CFR Part 75, Subpart B and 40 CFR Part 75, Subpart H |

|  |  |
| --- | --- |
| Unit ID: CTG 11-1 {EUCTG11-1} | |
| Parameter | Monitoring Methodology |
| SO2 | Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D |
| NOX | 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: CTG 11-2 {EUCTG11-2} | |
| Parameter | Monitoring Methodology |
| SO2 | Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D |
| NOX | 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: CTG 12-1 {EUCTG12-1} | |
| Parameter | Monitoring Methodology |
| SO2 | Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D |
| NOX | 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 NOX Annual Trading Program), 97.1030 through 97.1035 (CSAPR NOX Ozone Season Group 3 Trading Program), and 97.630 through 97.635 (CSAPR SO2 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 NOX Annual Trading Program), 97.1035 (CSAPR NOX Ozone Season Group 3 Trading Program), and/or 97.635 (CSAPR SO2 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), 97.1030 through 97.1034 (CSAPR NOX Ozone Season Group 3 Trading Program), and/or 97.630 through 97.634 (CSAPR SO2 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), 97.1035 (CSAPR NOX Ozone Season Group 3 Trading Program), and/or 97.635 (CSAPR SO2 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), 97.1030 through 97.1034 (CSAPR NOX Ozone Season Group 3 Trading Program), and 97.630 through 97.634 (CSAPR SO2 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)**

1. **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.

1. **Emissions monitoring, reporting, and recordkeeping requirements.**
2. 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).
3. 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.
4. **NOX emissions requirements.**
5. CSAPR NOX Annual emissions limitation.
   1. 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.
   2. 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:
      1. 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
      2. 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.
6. CSAPR NOX Annual assurance provisions.
   1. 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 statefor 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 statefor such control period exceed the state assurance level.
   2. 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.
   3. 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 stateduring 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).
   4. 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 NOXemissions from the CSAPR NOX Annual units at CSAPR NOX Annual sources in the state and Indian country within the borders of such stateduring a control period exceeds the common designated representative’s assurance level.
   5. 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,
      1. The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
      2. 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.
7. Compliance periods.
   1. 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.
   2. 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.
8. Vintage of allowances held for compliance.
   1. 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.
   2. 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.
9. 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.
10. 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:
    1. Such authorization shall only be used in accordance with the CSAPR NOX Annual Trading Program; and
    2. 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.
11. Property right. A CSAPR NOX Annual allowance does not constitute a property right.
12. **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).
13. **Additional recordkeeping and reporting requirements.**
14. 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.
    1. 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.
    2. All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart AAAAA.
    3. 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.
15. 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 NOX 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.
16. **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.
17. **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.

1. **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 97.1006)**

1. **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.

1. **Emissions monitoring, reporting, and recordkeeping requirements.**
2. 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).
3. 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.
4. **NOX emissions requirements.**
5. CSAPR NOX Ozone Season Group 3 emissions limitation.
   1. 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.
   2. If total NOX 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:
      1. 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
      2. 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.
6. CSAPR NOX Ozone Season Group 3 assurance provisions.
   1. 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 stateexceed 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—
      1. 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 statefor 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
      2. 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 statefor such control period exceed the state assurance level.
   2. 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.
   3. 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 stateduring 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).
   4. 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 stateduring 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 stateduring a control period exceeds the common designated representative’s assurance level.
   5. 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,
      1. The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
      2. 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.
7. Compliance periods.
   1. 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.
   2. 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.
8. Vintage of allowances held for compliance.
   1. 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.
   2. 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.
9. 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.
10. 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:
    1. Such authorization shall only be used in accordance with the CSAPR NOX Ozone Season Group 3 Trading Program; and
    2. 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.
11. Property right. A CSAPR NOX Ozone Season Group 3 allowance does not constitute a property right.
12. **Title V permit revision requirements*.***
13. 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.
14. 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).
15. **Additional recordkeeping and reporting requirements*.***
16. 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.
    1. 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.
    2. All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart GGGGG.
    3. 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.
17. 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.
18. **Liability*.***
19. 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.
20. 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.
21. **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.

1. **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 SO2 Group 1 Trading Program requirements (40 CFR 97.606)**

1. **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.

1. **Emissions monitoring, reporting, and recordkeeping requirements.**
2. The owners and operators, and the designated representative, of each CSAPR SO2 Group 1 source and each CSAPR SO2 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).
3. The emissions data determined in accordance with 40 CFR 97.630 through 97.635 shall be used to calculate allocations of CSAPR SO2 Group 1 allowances under 40 CFR 97.611(a)(2) and (b) and 97.612 and to determine compliance with the CSAPR SO2 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.
4. **SO2 emissions requirements.**
5. CSAPR SO2 Group 1 emissions limitation.
   1. As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR SO2 Group 1 source and each CSAPR SO2 Group 1 unit at the source shall hold, in the source's compliance account, CSAPR SO2 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 SO2 emissions for such control period from all CSAPR SO2 Group 1 units at the source.
   2. If total SO2 emissions during a control period in a given year from the CSAPR SO2 Group 1 units at a CSAPR SO2 Group 1 source are in excess of the CSAPR SO2 Group 1 emissions limitation set forth in paragraph (c)(1)(i) above, then:
      1. The owners and operators of the source and each CSAPR SO2 Group 1 unit at the source shall hold the CSAPR SO2 Group 1 allowances required for deduction under 40 CFR 97.624(d); and
      2. The owners and operators of the source and each CSAPR SO2 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.
6. CSAPR SO2 Group 1 assurance provisions.
   1. If total SO2 emissions during a control period in a given year from all CSAPR SO2 Group 1 units at CSAPR SO2 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 SO2 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 SO2 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—
      1. The quotient of the amount by which the common designated representative’s share of such SO2 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 statefor such control period, by which each common designated representative’s share of such SO2 emissions exceeds the respective common designated representative’s assurance level; and
      2. The amount by which total SO2 emissions from all CSAPR SO2 Group 1 units at CSAPR SO2 Group 1 sources in the state and Indian country within the borders of such statefor such control period exceed the state assurance level.
   2. The owners and operators shall hold the CSAPR SO2 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.
   3. Total SO2 emissions from all CSAPR SO2 Group 1 units at CSAPR SO2 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 SO2 emissions exceed the sum, for such control period, of the state SO2 Group 1 trading budget under 40 CFR 97.610(a) and the state’s variability limit under 40 CFR 97.610(b).
   4. It shall not be a violation of 40 CFR Part 97, Subpart CCCCC or of the Clean Air Act if total SO2 emissions from all CSAPR SO2 Group 1 units at CSAPR SO2 Group 1 sources in the state and Indian country within the borders of such stateduring a control period exceed the state assurance level or if a common designated representative’s share of total SO2 emissions from the CSAPR SO2 Group 1 units at CSAPR SO2 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.
   5. To the extent the owners and operators fail to hold CSAPR SO2 Group 1 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,
      1. The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
      2. Each CSAPR SO2 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.
7. Compliance periods.
   1. A CSAPR SO2 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.
   2. A CSAPR SO2 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.
8. Vintage of allowances held for compliance.
   1. A CSAPR SO2 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 SO2 Group 1 allowance that was allocated for such control period or a control period in a prior year.
   2. A CSAPR SO2 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 SO2 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.
9. Allowance Management System requirements. Each CSAPR SO2 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.
10. Limited authorization. A CSAPR SO2 Group 1 allowance is a limited authorization to emit one ton of SO2 during the control period in one year. Such authorization is limited in its use and duration as follows:
    1. Such authorization shall only be used in accordance with the CSAPR SO2 Group 1 Trading Program; and
    2. 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.
11. Property right. A CSAPR SO2 Group 1 allowance does not constitute a property right.
12. **Title V permit revision requirements.**
13. No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR SO2 Group 1 allowances in accordance with 40 CFR Part 97, Subpart CCCCC.
14. 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).
15. **Additional recordkeeping and reporting requirements.**
16. Unless otherwise provided, the owners and operators of each CSAPR SO2 Group 1 source and each CSAPR SO2 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.
    1. The certificate of representation under 40 CFR 97.616 for the designated representative for the source and each CSAPR SO2 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.
    2. All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart CCCCC.
    3. 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 SO2 Group 1 Trading Program.
17. The designated representative of a CSAPR SO2 Group 1 source and each CSAPR SO2 Group 1 unit at the source shall make all submissions required under the CSAPR SO2 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.
18. **Liability.**
19. Any provision of the CSAPR SO2 Group 1 Trading Program that applies to a CSAPR SO2 Group 1 source or the designated representative of a CSAPR SO2 Group 1 source shall also apply to the owners and operators of such source and of the CSAPR SO2 Group 1 units at the source.
20. Any provision of the CSAPR SO2 Group 1 Trading Program that applies to a CSAPR SO2 Group 1 unit or the designated representative of a CSAPR SO2 Group 1 unit shall also apply to the owners and operators of such unit.
21. **Effect on other authorities.**

No provision of the CSAPR SO2 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 SO2 Group 1 source or CSAPR SO2 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.