

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

EFFECTIVE DATE: September 18, 2018
REVISION DATES: June 10, 2019, July 21, 2020

ISSUED TO

Zeeland Farm Services, Incorporated

State Registration Number (SRN): M4204

LOCATED AT

2468 84th Avenue, Zeeland, Michigan 49464

RENEWABLE OPERATING PERMIT

Permit Number: MI-ROP-M4204-2018b

Expiration Date: September 18, 2023

Administratively Complete ROP Renewal Application
Due Between March 18, 2022 and March 18, 2023

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 Michigan Air Pollution Control Rule 210(1), this ROP constitutes the permittee's authority to operate the stationary source identified above in accordance with the general conditions, special conditions and attachments contained herein. Operation of the stationary source and all emission units listed in the permit are subject to all applicable future or amended rules and regulations pursuant to Act 451 and the federal Clean Air Act.

SOURCE-WIDE PERMIT TO INSTALL

Permit Number: MI-PTI-M4204-2018b

This Permit to Install (PTI) is issued in accordance with and subject to Section 5505(5) of Act 451. Pursuant to Michigan Air Pollution Control Rule 214a, the terms and conditions herein, identified by the underlying applicable requirement citation of Rule 201(1)(a), constitute a federally enforceable PTI. The PTI terms and conditions do not expire and remain in effect unless the criteria of Rule 201(6) are met. Operation of all emission units identified in the PTI is subject to all applicable future or amended rules and regulations pursuant to Act 451 and the federal Clean Air Act.

Michigan Department of Environment, Great Lakes, and Energy

Heidi Hollenbach, Grand Rapids District Supervisor

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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.

A. GENERAL CONDITIONS

Permit Enforceability

- All conditions in this permit are both federally enforceable and state enforceable unless otherwise noted. **(R 336.1213(5))**
- Those conditions that are hereby incorporated in a state-only enforceable Source-Wide PTI pursuant to Rule 201(2)(d) are designated by footnote one. **(R 336.1213(5)(a), R 336.1214a(5))**
- Those conditions that are hereby incorporated in a federally enforceable Source-Wide PTI pursuant to Rule 201(2)(c) are designated by footnote two. **(R 336.1213(5)(b), R 336.1214a(3))**

General Provisions

1. The permittee shall comply with all conditions of this ROP. Any ROP noncompliance constitutes a violation of Act 451, and is grounds for enforcement action, for ROP revocation or revision, or for denial of the renewal of the ROP. All terms and conditions of this ROP that are designated as federally enforceable are enforceable by the Administrator of the United States Environmental Protection Agency (USEPA) and by citizens under the provisions of the federal Clean Air Act (CAA). Any terms and conditions based on applicable requirements which are designated as "state-only" are not enforceable by the USEPA or citizens pursuant to the CAA. **(R 336.1213(1)(a))**
2. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this ROP. **(R 336.1213(1)(b))**
3. This ROP may be modified, revised, or revoked for cause. The filing of a request by the permittee for a permit modification, revision, or termination, or a notification of planned changes or anticipated noncompliance does not stay any ROP term or condition. This does not supersede or affect the ability of the permittee to make changes, at the permittee's own risk, pursuant to Rule 215 and Rule 216. **(R 336.1213(1)(c))**
4. The permittee shall allow the department, or an authorized representative of the department, upon presentation of credentials and other documents as may be required by law and upon stating the authority for and purpose of the investigation, to perform any of the following activities: **(R 336.1213(1)(d))**
 - a. Enter, at reasonable times, a stationary source or other premises where emissions-related activity is conducted or where records must be kept under the conditions of the ROP.
 - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the ROP.
 - c. Inspect, at reasonable times, any of the following:
 - i. Any stationary source.
 - ii. Any emission unit.
 - iii. Any equipment, including monitoring and air pollution control equipment.
 - iv. Any work practices or operations regulated or required under the ROP.
 - d. As authorized by Section 5526 of Act 451, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the ROP or applicable requirements.
5. The permittee shall furnish to the department, within a reasonable time, any information the department may request, in writing, to determine whether cause exists for modifying, revising, or revoking the ROP or to determine compliance with this ROP. Upon request, the permittee shall also furnish to the department copies of any records that are required to be kept as a term or condition of this ROP. For information which is claimed by the permittee to be confidential, consistent with the requirements of the 1976 PA 442, MCL §15.231 et seq., and known as the Freedom of Information Act, the person may also be required to furnish the records directly to the USEPA together with a claim of confidentiality. **(R 336.1213(1)(e))**

6. A challenge by any person, the Administrator of the USEPA, or the department to a particular condition or a part of this ROP shall not set aside, delay, stay, or in any way affect the applicability or enforceability of any other condition or part of this ROP. **(R 336.1213(1)(f))**
7. The permittee shall pay fees consistent with the fee schedule and requirements pursuant to Section 5522 of Act 451. **(R 336.1213(1)(g))**
8. This ROP does not convey any property rights or any exclusive privilege. **(R 336.1213(1)(h))**

Equipment & Design

9. Any collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2).² **(R 336.1370)**
10. Any air cleaning device shall be installed, maintained, and operated in a satisfactory manner and in accordance with the Michigan Air Pollution Control rules and existing law. **(R 336.1910)**

Emission Limits

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

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

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

Testing/Sampling

13. The department may require the owner or operator of any source of an air contaminant to conduct acceptable performance tests, at the owner's or operator's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001(1).² **(R 336.2001)**
14. Any required performance testing shall be conducted in accordance with Rule 1001(2), Rule 1001(3) and Rule 1003. **(R 336.2001(2), R 336.2001(3), R 336.2003(1))**
15. Any required test results shall be submitted to the Air Quality Division (AQD) in the format prescribed by the applicable reference test method within 60 days following the last date of the test. **(R 336.2001(5))**

Monitoring/Recordkeeping

16. Records of any periodic emission or parametric monitoring required in this ROP shall include the following information specified in Rule 213(3)(b)(i), where appropriate. **(R 336.1213(3)(b))**
 - a. The date, location, time, and method of sampling or measurements.
 - b. The dates the analyses of the samples were performed.
 - c. The company or entity that performed the analyses of the samples.
 - d. The analytical techniques or methods used.
 - e. The results of the analyses.
 - f. The related process operating conditions or parameters that existed at the time of sampling or measurement.
17. All required monitoring data, support information and all reports, including reports of all instances of deviation from permit requirements, shall be kept and furnished to the department upon request for a period of not less than 5 years from the date of the monitoring sample, measurement, report or application. Support information includes all calibration and maintenance records and all original strip-chart recordings, or other original data records, for continuous monitoring instrumentation and copies of all reports required by the ROP. **(R 336.1213(1)(e), R 336.1213(3)(b)(ii))**

Certification & Reporting

18. Except for the alternate certification schedule provided in Rule 213(3)(c)(iii)(B), any document required to be submitted to the department as a term or condition of this ROP shall contain an original certification by a Responsible Official which states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. **(R 336.1213(3)(c))**
19. A Responsible Official shall certify to the appropriate AQD District Office and to the USEPA that the stationary source is and has been in compliance with all terms and conditions contained in the ROP except for deviations that have been or are being reported to the appropriate AQD District Office pursuant to Rule 213(3)(c). This certification shall include all the information specified in Rule 213(4)(c)(i) through (v) and shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the certification are true, accurate, and complete. The USEPA address is: USEPA, Air Compliance Data - Michigan, Air and Radiation Division, 77 West Jackson Boulevard, Chicago, Illinois 60604-3507. **(R 336.1213(4)(c))**
20. The certification of compliance shall be submitted annually for the term of this ROP as detailed in the special conditions, or more frequently if specified in an applicable requirement or in this ROP. **(R 336.1213(4)(c))**
21. The permittee shall promptly report any deviations from ROP requirements and certify the reports. The prompt reporting of deviations from ROP requirements is defined in Rule 213(3)(c)(ii) as follows, unless otherwise described in this ROP. **(R 336.1213(3)(c))**
 - a. For deviations that exceed the emissions allowed under the ROP, prompt reporting means reporting consistent with the requirements of Rule 912 as detailed in Condition 25. All reports submitted pursuant to this paragraph shall be promptly certified as specified in Rule 213(3)(c)(iii).
 - b. For deviations which exceed the emissions allowed under the ROP and which are not reported pursuant to Rule 912 due to the duration of the deviation, prompt reporting means the reporting of all deviations in the semiannual reports required by Rule 213(3)(c)(i). The report shall describe reasons for each deviation and the actions taken to minimize or correct each deviation.
 - c. For deviations that do not exceed the emissions allowed under the ROP, prompt reporting means the reporting of all deviations in the semiannual reports required by Rule 213(3)(c)(i). The report shall describe the reasons for each deviation and the actions taken to minimize or correct each deviation.

22. For reports required pursuant to Rule 213(3)(c)(ii), prompt certification of the reports is described in Rule 213(3)(c)(iii) as either of the following: **(R 336.1213(3)(c))**
 - a. Submitting a certification by a Responsible Official with each report which states that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
 - b. Submitting, within 30 days following the end of a calendar month during which one or more prompt reports of deviations from the emissions allowed under the ROP were submitted to the department pursuant to Rule 213(3)(c)(ii), a certification by a Responsible Official which states that, "based on information and belief formed after reasonable inquiry, the statements and information contained in each of the reports submitted during the previous month were true, accurate, and complete." The certification shall include a listing of the reports that are being certified. Any report submitted pursuant to Rule 213(3)(c)(ii) that will be certified on a monthly basis pursuant to this paragraph shall include a statement that certification of the report will be provided within 30 days following the end of the calendar month.
23. Semiannually for the term of the ROP as detailed in the special conditions, or more frequently if specified, the permittee shall submit certified reports of any required monitoring to the appropriate AQD District Office. All instances of deviations from ROP requirements during the reporting period shall be clearly identified in the reports. **(R 336.1213(3)(c)(i))**
24. On an annual basis, the permittee shall report the actual emissions, or the information necessary to determine the actual emissions, of each regulated air pollutant as defined in Rule 212(6) for each emission unit utilizing the emissions inventory forms provided by the department. **(R 336.1212(6))**
25. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the appropriate AQD District Office. The notice shall be provided not later than two business days after the start-up, shutdown, or discovery of the abnormal conditions or malfunction. Notice shall be by any reasonable means, including electronic, telephonic, or oral communication. Written reports, if required under Rule 912, must be submitted to the appropriate AQD District Supervisor within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal conditions or malfunction has been corrected, or within 30 days of discovery of the abnormal conditions or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5) and shall be certified by a Responsible Official in a manner consistent with the CAA.² **(R 336.1912)**

Permit Shield

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

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

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

- d. The ability of the USEPA to obtain information from a source pursuant to Section 114 of the CAA. **(R 336.1213(6)(b)(iv))**
28. The permit shield shall not apply to provisions incorporated into this ROP through procedures for any of the following:
 - a. Operational flexibility changes made pursuant to Rule 215. **(R 336.1215(5))**
 - b. Administrative Amendments made pursuant to Rule 216(1)(a)(i)-(iv). **(R 336.1216(1)(b)(iii))**
 - c. Administrative Amendments made pursuant to Rule 216(1)(a)(v) until the amendment has been approved by the department. **(R 336.1216(1)(c)(iii))**
 - d. Minor Permit Modifications made pursuant to Rule 216(2). **(R 336.1216(2)(f))**
 - e. State-Only Modifications made pursuant to Rule 216(4) until the changes have been approved by the department. **(R 336.1216(4)(e))**
29. Expiration of this ROP results in the loss of the permit shield. If a timely and administratively complete application for renewal is submitted not more than 18 months, but not less than 6 months, before the expiration date of the ROP, but the department fails to take final action before the end of the ROP term, the existing ROP does not expire until the renewal is issued or denied, and the permit shield shall extend beyond the original ROP term until the department takes final action. **(R 336.1217(1)(c), R 336.1217(1)(a))**

Revisions

30. For changes to any process or process equipment covered by this ROP that do not require a revision of the ROP pursuant to Rule 216, the permittee must comply with Rule 215. **(R 336.1215, R 336.1216)**
31. A change in ownership or operational control of a stationary source covered by this ROP shall be made pursuant to Rule 216(1). **(R 336.1219(2))**
32. For revisions to this ROP, an administratively complete application shall be considered timely if it is received by the department in accordance with the time frames specified in Rule 216. **(R 336.1210(10))**
33. Pursuant to Rule 216(1)(b)(iii), Rule 216(2)(d) and Rule 216(4)(d), after a change has been made, and until the department takes final action, the permittee shall comply with both the applicable requirements governing the change and the ROP terms and conditions proposed in the application for the modification. During this time period, the permittee may choose to not comply with the existing ROP terms and conditions that the application seeks to change. However, if the permittee fails to comply with the ROP terms and conditions proposed in the application during this time period, the terms and conditions in the ROP are enforceable. **(R 336.1216(1)(c)(iii), R 336.1216(2)(d), R 336.1216(4)(d))**

Reopenings

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

Renewals

35. For renewal of this ROP, an administratively complete application shall be considered timely if it is received by the department not more than 18 months, but not less than 6 months, before the expiration date of the ROP. **(R 336.1210(8))**

Stratospheric Ozone Protection

36. If the permittee is subject to Title 40 of the Code of Federal Regulations (CFR), Part 82 and services, maintains, or repairs appliances except for motor vehicle air conditioners (MVAC), or disposes of appliances containing refrigerant, including MVAC and small appliances, or if the permittee is a refrigerant reclaiming, appliance owner or a manufacturer of appliances or recycling and recovery equipment, the permittee shall comply with all applicable standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F.
37. If the permittee is subject to 40 CFR Part 82, and performs a service on motor (fleet) vehicles when this service involves refrigerant in the MVAC, the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed by the original equipment manufacturer. The term MVAC as used in Subpart B does not include the air-tight sealed refrigeration system used for refrigerated cargo or an air conditioning system on passenger buses using Hydrochlorofluorocarbon-22 refrigerant.

Risk Management Plan

38. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall register and submit to the USEPA the required data related to the risk management plan for reducing the probability of accidental releases of any regulated substances listed pursuant to Section 112(r)(3) of the CAA as amended in 40 CFR 68.130. The list of substances, threshold quantities, and accident prevention regulations promulgated under 40 CFR Part 68, do not limit in any way the general duty provisions under Section 112(r)(1).
39. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall comply with the requirements of 40 CFR Part 68, no later than the latest of the following dates as provided in 40 CFR 68.10(a):
- June 21, 1999,
 - Three years after the date on which a regulated substance is first listed under 40 CFR 68.130, or
 - The date on which a regulated substance is first present above a threshold quantity in a process.
40. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall submit any additional relevant information requested by any regulatory agency necessary to ensure compliance with the requirements of 40 CFR Part 68.
41. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall annually certify compliance with all applicable requirements of Section 112(r) as detailed in Rule 213(4)(c)). **(40 CFR Part 68)**

Emission Trading

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

Permit to Install (PTI)

43. The process or process equipment included in this permit shall not be reconstructed, relocated, or modified unless a PTI authorizing such action is issued by the department, except to the extent such action is exempt from the PTI requirements by any applicable rule.² **(R 336.1201(1))**
44. The department may, after notice and opportunity for a hearing, revoke PTI terms or conditions if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of the PTI or is violating the department's rules or the CAA.² **(R 336.1201(8), Section 5510 of Act 451)**
45. The terms and conditions of a PTI shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by the PTI. If a new owner or operator submits a written request to the department pursuant to Rule 219 and the department approves the request, this PTI will be amended to reflect the change of ownership or operational control. The request must include all of the information required by Subrules (1)(a), (b) and (c) of Rule 219. The written request shall be sent to the appropriate AQD District Supervisor, EGLE.² **(R 336.1219)**
46. If the installation, reconstruction, relocation, or modification of the equipment for which PTI terms and conditions have been approved has not commenced within 18 months of the original PTI issuance date, or has been interrupted for 18 months, the applicable terms and conditions from that PTI, as incorporated into the ROP, shall become void unless otherwise authorized by the department. Furthermore, the person to whom that PTI was issued, or the designated authorized agent, shall notify the department via the Supervisor, Permit Section, EGLE, AQD, P. O. Box 30260, Lansing, Michigan 48909, if it is decided not to pursue the installation, reconstruction, relocation, or modification of the equipment allowed by the terms and conditions from that PTI.² **(R 336.1201(4))**

Footnotes:

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.

SOURCE-WIDE CONDITIONS

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Opacity	5% ²	6-minute average	From all on-site vehicle traffic	SC VI.3	R 336.1301(1)(c) R 336.2803 R 336.2804 40 CFR 52.21(c)&(d)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate any portion of the facility unless the program for continuous fugitive emissions control for all plant roadways, the plant yard, and all material handling operations as specified in the Fugitive Dust Plan have been implemented and maintained.² (R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d))

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not have any outside storage piles of soybeans or soybean meal.² (R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d))

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 maintain records of all Malfunction Abatement Procedures (MAP) performed at the plant as well as the date and time they were performed.² (R 336.1911, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d))
2. The permittee shall maintain records of compliance with the approved PMP.² (R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d))
3. The permittee shall conduct and record daily non-certified visual emission observations of on-site vehicle traffic when traffic is present.² (R 336.1301(1)(c), R 336.1303, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d))

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

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee shall implement and maintain an approved MAP.² **(R 336.1911, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d))**
2. The permittee shall implement and maintain an approved PMP.² **(R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d))**
3. Acceptable formats, including calculation method, for all recordkeeping and reports shall be approved by the AQD District Supervisor prior to being implemented and used.² **(R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d))**

See Appendix 9

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).

C. EMISSION UNIT 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
EUBOILER	An existing firetube boiler fueled with natural gas, distillate oil, landfill gas, and/or soy oil, 35 mm Btu/hour, Deaeration (DA) Tank, Compressor. This boiler is subject to the NSPS for Industrial-Commercial-Institutional Steam Generating Units, 40 CFR Part 60, Subpart Dc as well as 40 CFR Part 63, Subpart DDDDD – the NESHAP for Industrial, Commercial and Institutional Boilers and Process Heaters.	08-19-1996	FGBOILERS
EUDRYING	Cimbria Super Cyclofan grain dryers with five exhausts.	10-15-1999	NA
EUPREPEQUIPMENT	Equipment used to prepare the bean for soybean oil extraction including: Scale, Jet Dryer, Vertical Seed Conditioner (VSC), CCC Aspirator, CCC Cyclone, Cracker, Hulloosinator, Jet Dryer Cyclone, Split Soy Aspirator, Secondary Aspirator, 4 Flakers, Hull Screener, Hull Grinder, 2 Screeners, 2 Meal Grinders, Ball Crusher, Mixing Screw Conveyor, Meal Leg. The baghouse is subject to 40 CFR Part 64 (CAM). (PTI Nos. 62-15, 4-19)	08-19-1996/ 07-21-2011/ 05-08-2015/ 02-13-2019	NA
EUBIN	Storage Bins.	06-15-1996/ 07-03-2000/ 03-01-2006/ 04-01-2007/ 09-21-2011	FGHANDLING
EUHANDLING	South Receiving Leg, North Receiving Leg, Wet Leg, Receiving Belt, Reclaim Screw, Dryer Drag, Transfer Drag.	08-19-1996	FGHANDLING
EUHANDLING2	Pit Leg, Cleaner Leg, Receiving Belt, Fill Conveyors, Reclaim Conveyors.	03-01-2006	FGHANDLING
EUEXTRACTION	Extractor, Spent Flake Conveyor, Evaporators, Oil Stripper Solvent System, Plug Screw Aspiration. (PTI No. 165-14)	08-19-1996	FGEXTRACTION

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date/ Modification Date	Flexible Group ID
EUDTDC	Desolventizer/Toaster, Dryers, and Cooler with cyclone controls. (PTI No. 165-14)	08-15-1996 07-21-2011 05-08-2015	FGEXTRACTION
EULF/NGENGINE1	One (1) 2,300 BHP Caterpillar 3520C reciprocating internal combustion engine fueled with treated landfill or natural gas. (PTI No. 94-04D)	2006	FGLF/NGENGINES
EULF/NGENGINE2	One (1) 2,300 BHP Caterpillar 3520C reciprocating internal combustion engine fueled with treated landfill or natural gas. (PTI No. 94-04D)	2008	FGLF/NGENGINES
EULF/NGBLR5	A 6.27 MMBtu/hr boiler that operates on natural gas or landfill gas. (PTI No. 271-05B)	2002/ April 2006	FGBOILERS
EUNUKBOILER	One 4.00 MMBtu/hr firetube boiler used to provide high pressure steam for the plant's deodorizing system. The boiler operates on natural gas. (PTI No. 271-05B)	2002/ April 2006/ 06-15-2015	FGBOILERS
EUREFBOILER	One 16.8 MMBtu/hr firetube boiler used to provide steam to plant processes. The boiler operates on either natural gas or landfill gas. (PTI No. 271-05B)	April 2006	FGBOILERS
EUSTORAGETANK	Extraction Solvent Storage Tank, 15,000 gallons. (PTI No. 165-14)	08-15-1996	FGEXTRACTION
EUDUMPTANK	Extraction Solvent Dump Tank, 15,000 gallons. (PTI No. 165-14)	08-15-1996	FGEXTRACTION
EUREFINERY	Soybean oil refining process equipment.	01-01-2003	FGRULE290
EUAMMONIA	Two anhydrous ammonia nurse tanks with storage capacity not to exceed 1,000 gallons per tank. (PTI No. 201-19)	08-02-2017 01-17-2019	NA
EUGENERATOR	One (1) 70 kilowatts (kW) emergency engine installed April 2016.	2016	NA

**EUBOILER
 EMISSION UNIT CONDITIONS**

DESCRIPTION

An existing firetube boiler fueled with natural gas, distillate oil, landfill gas, and/or soy oil, 35 mm Btu/hour, Deaeration (DA) Tank, Compressor. This boiler is subject to the NSPS for Industrial-Commercial-Institutional Steam Generating Units, 40 CFR Part 60, Subpart Dc as well as 40 CFR Part 63, Subpart DDDDD – the NESHAP for Industrial, Commercial and Institutional Boilers and Process Heaters.

Flexible Group ID: FGBOILERS

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Sulfur content in distillate oil	0.5% ² by weight or less	Instantaneous	EUBOILER	SC VI.2	R 336.1201 40 CFR Part 60, Subpart Dc

2. The permittee shall only burn natural gas, distillate oil, landfill gas and soy oil as fuel for EUBOILER.² **(40 CFR 52.21(c)&(d))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

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 records to document the amount of each/every fuel combusted in EUBOILER each calendar day.² **(40 CFR Part 60, Subpart Dc)**
- 2. The permittee shall keep records of distillate oil certifications, including sulfur content and methods used to determine the sulfur content.² **(40 CFR Part 60, Subpart Dc)**

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

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVBOILER	25 ²	63 ²	R 336.1201(3)

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable requirements of 40 CFR Part 60, Subparts A and Dc. **(40 CFR Part 60, Subparts A and Dc)**
2. The permittee shall comply with all applicable requirements of 40 CFR Part 63, Subpart DDDDD – National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters. **(40 CFR Part 63, Subparts A & DDDDD)**

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).

**EUDRYING
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Cimbria Super Cyclofan grain dryers with five (5) exhausts.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Five (5) cyclofans that are both process and control equipment

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM	0.03 pounds per 1000 lbs of exhaust gases calculated on a dry gas basis ²	Hourly	Each exhaust stack in EUDRYING	SC V.1	R 336.1331(1)(c)
2. PM10	12.65 pounds per hour ²	Hourly	The total of the five exhaust stacks combined in EUDRYING	SC V.1	R 336.2803 R 336.2804 40 CFR 52.21(c)&(d)
3. PM2.5	10.12 pounds per hour ²	Hourly	The total of the five exhaust stacks combined in EUDRYING	SC V.1	R 336.2803 R 336.2804 40 CFR 52.21(c)&(d)
4. Opacity	10% ²	6-minute average	Each exhaust stack in EUDRYING	SC VI.3	R 336.1301(1)(c) R 336.2803 R 336.2804 40 CFR 52.21(c)&(d)

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Soybeans	2520 tons per day ²	Calendar day	EUDRYING	SC VI.1	R 336.2803 R 336.2804 40 CFR 52.21(c)&(d)
2. Soybeans	225,000 tons per year ²	12-month rolling time period as determined at the end of each calendar month	EUDRYING	SC VI.2	R 336.2803 R 336.2804 40 CFR 52.21(c)&(d)

III. PROCESS/OPERATIONAL RESTRICTION(S)

- 1. The permittee shall not operate Cimbria Super Cyclofan Dryer unless all discharges are controlled by properly installed and operated cyclofans.² (R 336.1331, R 336.1910, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d))

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

- 1. Upon issuance of the permit, prior to December 31, 2018 and then within five years of the date of the last test, the permittee shall verify PM, PM10, and PM2.5 emission rates from a single representative exhaust stack on the Cimbria Super Cyclofan Dryer by testing at owner's expense, in accordance with Department requirements. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD. Testing shall be performed using an approved EPA Method listed in:

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

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.² (R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d))

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 daily records of soybeans fed to the Cimbria dryer.² (R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d))
- 2. The permittee shall keep yearly records of tons of soybeans fed to the Cimbria dryer based on a 12-month rolling time period as determined at the end of each calendar month.² (R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d))
- 3. The operator shall perform and record a non-certified daily visible emission observation of each stack in EUDRYING for one 6-minute period when the process is operating. The 6-minute average shall be based on 24 equally spaced instantaneous opacity measurements per 6-minute period.² (R 336.1301, R 336.1303, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d))

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

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVCIMBRIA1 (Horizontal)	40 ²	30.0 ²	R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d)
2. SVCIMBRIA2 (Horizontal)	40 ²	40.0 ²	R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d)
3. SVCIMBRIA3 (Horizontal)	40 ²	50.0 ²	R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d)
4. SVCIMBRIA4 (Horizontal)	40 ²	60.0 ²	R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d)
5. SVCIMBRIA5 (Horizontal)	40 ²	70.0 ²	R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

**EUPREPEQUIPMENT
 EMISSION UNIT CONDITIONS**

DESCRIPTION

Equipment used to prepare the bean for soybean oil extraction including: Scale, Jet Dryer, Vertical Seed Conditioner (VSC), CCC Aspirator, CCC Cyclone, Cracker, Hulloosinator, Jet Dryer Cyclone, Split Soy Aspirator, Secondary Aspirator, 4 Flakers, Hull Screener, Hull Grinder, 2 Screeners, 2 Meal Grinders, Ball Crusher, Mixing Screw Conveyor, Meal Leg. The baghouse is subject to 40 CFR Part 64 (CAM). (PTI No. 62-15, 4-19)

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

One designated cyclone for the Vertical Seed Conditioner (VSC) and one baghouse for all other equipment.

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM	0.044 pounds per 1,000 pounds of exhaust gases Calculated on a dry gas basis ²	Hourly	EUPREPEQUIPMENT (Baghouse)	SC V.2 SC VI.1 SC VI.2	R 336.1331(1)(c)
2. PM10	5.36 pounds per hour ²	Hourly	EUPREPEQUIPMENT (Baghouse)	SC V.2 SC VI.1 SC VI.2	40 CFR 52.21(c)&(d)
3. PM2.5	4.25 pounds per hour ²	Hourly	EUPREPEQUIPMENT (Baghouse)	SC V.2 SC VI.1 SC VI.2	40 CFR 52.21(c)&(d)
4. PM	0.05 pounds per 1,000 pounds of exhaust gases Calculated on a dry gas basis ²	Hourly	EUPREPEQUIPMENT (VSC Cyclone)	SC V.1 SC VI.2	R 336.1331(1)(c)
5. PM10	2.0 pounds per hour ²	Hourly	EUPREPEQUIPMENT (VSC Cyclone)	SC V.1 SC VI.2	R 336.1301(1)(c) 40 CFR 52.21(c)&(d)
6. PM2.5	1.4 pounds per hour ²	Hourly	EUPREPEQUIPMENT (VSC Cyclone)	SC V.1 SC VI.2	R 336.1301(1)(c) 40 CFR 52.21(c)&(d)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall not operate EUPREPEQUIPMENT unless a Malfunction Abatement Plan (MAP) as described in Rule 911(2), for the baghouse and cyclone are implemented and maintained. The MAP shall, at a minimum, specify the following:
 - a. A complete Preventative Maintenance Program including identification of the supervisory personnel responsible for overseeing the inspection, maintenance, and repair of air-cleaning devices, a description of the items or conditions that shall be inspected, the frequency of the inspections or repairs, and an identification of the major replacement parts that shall be maintained in inventory for quick replacement.

- b. An identification of the source and air-cleaning device operating variables that shall be monitored to detect a malfunction or failure, the normal operating range of these variables, and a description of the method of monitoring or surveillance procedures.
- c. A description of the corrective procedures or operational changes that shall be taken in the event of a malfunction or failure to achieve compliance with the applicable emission limits.
- d. Records of malfunctions or failures shall include the date of the occurrence, the time of the occurrence, the length of the occurrence, and the corrective procedures taken.

If at any time the MAP fails to address or inadequately addresses an event that meets the characteristics of a malfunction, the permittee shall amend the MAP within 45 days after such an event occurs. The permittee shall also amend the MAP within 45 days, if new equipment is installed or upon request from the District Supervisor. The permittee shall submit the MAP and any amendments to the MAP to the AQD District Supervisor for review and approval. If the AQD does not notify the permittee within 90 days of submittal, the MAP or amended MAP shall be considered approved. Until an amended plan is approved, the permittee shall implement corrective procedures or operational changes to achieve compliance with all applicable emission limits.² **(R 336.1225, R 336.1331, R 336.1702(a), R 336.1910, R 336.1911, 40 CFR 52.21(c)&(d))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

- 1. The permittee shall not operate any equipment associated with bean preparation and flaking, hull grinding, or meal grinding in EUPREPEQUIPMENT unless the prep building baghouse dust collector is installed and operating properly.² **(R 336.1331, R 336,1910, 40 CFR 52.21(c)&(d))**
- 2. The permittee shall not operate any equipment associated with the bean conditioning process in EUPREPEQUIPMENT unless the VSC cyclone is installed and operating properly.² **(R 336.1331, R 336,1910, 40 CFR 52.21(c)&(d))**
- 3. The permittee shall not operate EUPREPEQUIPMENT unless a gauge, which measures the pressure drop across the prep building baghouse dust collector is installed, calibrated, maintained and operated in a satisfactory manner.² **(R 336.1331, R 336.1910, 40 CFR 52.21(c)&(d), 40 CFR 64.6(c)(1)(i), (ii), & (iii))**

V. TESTING/SAMPLING

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

- 1. Upon issuance of Renewable Operating Permit MI-ROP-M4204-2018, prior to December 31, 2020 and then within five years of the date of the last test, the permittee shall verify PM, PM10, and PM2.5 emission rates from the cyclone for the VSC for EUPREPEQUIPMENT by testing at owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in:

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

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.² **(R 336.1331, R 336.2001, R 336.2003, R 336.2004, 40 CFR 52.21 (c)&(d))**

- 2. Upon issuance of Renewable Operating Permit MI-ROP-M4204-2018, prior to December 31, 2018 and then within five years of the date of the last test, the permittee shall verify PM, PM10, and PM2.5 emission rates from the baghouse for EUPREPEQUIPMENT by testing at owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in:

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

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. **(R 336.2001, R 336.2003, R 336.2004)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall utilize a pressure drop gauge to make pressure drop readings of the baghouse. The appropriate pressure drop, which partially defines proper functioning of the baghouse, is between 1 inch and 8 inches of water. An excursion for particulate shall be any value above 8 inches of water. Measurements less than 1 inch of water are not considered an excursion, but do require a system inspection to ensure proper equipment operation. **(40 CFR 64.6(c)(1)(i) & (ii), 40 CFR 64.6(c)(2))**
2. The permittee shall twice daily record the pressure drop across the prep building baghouse, date, time, production throughput rate and initials of individual taking the readings. The permittee shall conduct and maintain records of quarterly calibrations of the pressure drop gauge, in an acceptable format.² **(R 336.1331, R 336.1910, 40 CFR 52.21(c)&(d))**
3. The permittee shall utilize a non-certified operator to make visible emission observations as an indicator of the proper functioning of the prep building baghouse. The operator shall perform and record a daily visible emission observation of the baghouse for one 6-minute period using a Method 22-like approach when the process is operating. The appropriate opacity, which partially defines proper functioning of the baghouse, is 0%. An excursion is the presence of visible emissions seen any time during the 6-minute observation period. **(40 CFR 64.6(c)(1)(i), (ii) & (iii), 40 CFR 64.6(c)(2))**
4. Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). **(40 CFR 64.7(d))**
5. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. **(40 CFR 64.6(c)(3), 40 CFR 64.7(c))**
6. The permittee shall initiate the Preventative Maintenance Plan if visible emissions are noted or if the pressure of the baghouse exceeds 6 inches H₂O based on instantaneous readings. **(40 CFR 64.7(d))**

7. The permittee shall, at all times, maintain the monitoring system, including but not limited to, maintaining necessary parts for routine repairs of the monitoring and alarm equipment. **(40 CFR 64.7(b))**
8. The permittee shall monitor and record, in a satisfactory manner, the operating parameters for the baghouse and cyclone as specified in the MAP at the frequency specified in the MAP. The permittee shall keep these records on file at the facility and make them available to the Department upon request.² **(R 336.1910)**
9. The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan and any activities undertaken to implement a quality improvement plan, and other information such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions. **(40 CFR 64.9(b)(1))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. Each semiannual report of monitoring deviations shall include summary information on the number, duration and cause of excursions and/or exceedances and the corrective actions taken. If there were no excursions and/or exceedances in the reporting period, then this report shall include a statement that there were no excursions and/or exceedances. **(40 CFR 64.9(a)(2)(i))**
5. Each semiannual report of monitoring deviations shall include summary information on monitor downtime. If there were no periods of monitor downtime in the reporting period, then this report shall include a statement that there were no periods of monitor downtime. **(40 CFR 64.9(a)(2)(ii))**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVBAGHOUSE	30 ²	80.0 ²	40 CFR 52.21(c)&(d)
2. SVCONDITIONER	18 ²	84.0 ²	40 CFR 52.21(c)&(d)

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all requirements of 40 CFR Part 64. **(40 CFR 64.2(a))**
2. If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly notify the AQD and if necessary, submit a proposed modification of the ROP and CAM Plan to address the necessary monitoring changes. Such a modification may

include but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters. **(40 CFR 64.7(e))**

3. The permittee shall implement and maintain an approvable Compliance Assurance Monitoring (CAM) Plan. **(40 CFR Part 64)**
4. If during a semiannual reporting period there are more than eight exceedances or excursions, as defined in the Compliance Assurance Monitoring Plan, of the differential pressure gauge and audible alarm monitoring system described in SC IV. 3, the Company shall implement a Quality Improvement Plan. **(40 CFR 64.8(a))**

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).

**EULF/NGBLR5
 EMISSION UNIT CONDITIONS**

DESCRIPTION

A 6.27 MMBtu/hr boiler that operates on natural gas or landfill gas. (PTI No. 271-05B)

Flexible Group ID: FGBOILERS

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NOx	0.13 lb/MMBtu when burning natural gas and/or landfill gas ²	Hourly	EULF/NGBLR5	SC V.1	R 336.1205(3)
2. NOx	0.82 lb/hr, when burning natural gas and/or landfill gas ²	Hourly	EULF/NGBLR5	SC V.1	R 336.1205(3)
3. CO	0.53 lb/hr, when burning natural gas and/or landfill gas ²	Hourly	EULF/NGBLR5	SC V.1	R 336.1205(3)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

- Upon issuance of the permit, prior to December 31, 2020 and then within five years of the date of the last test, the permittee shall verify CO and NOx emission rates from EULF/NGBLR5 by testing at owner's expense, in accordance with 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

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.² (R 336.2001, R 336.2003, R 336.2004, R 336.1205, R 336.1225)

VI. MONITORING/RECORDKEEPING

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

NA

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVLF/NGBLR5	13 ¹	29.8 ¹	R 336.1225

IX. OTHER REQUIREMENT(S)

NA

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).

EUNUKBOILER EMISSION UNIT CONDITIONS

DESCRIPTION

One 4.00 MMBtu/hr firetube boiler used to provide high pressure steam for the plant's deodorizing system. The boiler operates on natural gas. (PTI No. 271-05B)

Flexible Group ID: FGBOILERS

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NOx	0.13 lb/MMBTU, when burning natural gas ²	Hourly	EUNUKBOILER	SC VI.1	R 336.1205(3)
2. NOx	0.52 lb/hr, when burning natural gas ²	Hourly	EUNUKBOILER	SC VI.1	R 336.1205(3)
3. CO	0.336 lb/hr, when burning natural gas ²	Hourly	EUNUKBOILER	SC VI.1	R 336.1205(3)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

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, in a manner satisfactory to the District Supervisor, monthly combined fuel use records for EUNUKBOILERS and EULF/NGBLR5. The fuel usage can be calculated by monitoring the combined fuel usage from EUNUKBOILER, EULF/NGBLR5 and EUREFBOILER. This record shall be kept on file and made available to the Department upon request. (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 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

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVNUKBOILER	16 ¹	49.7 ¹	R 336.1225

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

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

**EUREFBOILER
 EMISSION UNIT CONDITIONS**

DESCRIPTION

One 16.8 MMBtu/hr firetube boiler used to provide steam to plant processes. The boiler operates on either natural gas or landfill gas and is subject to NSPS Dc. (PTI No. 271-05B)

Flexible Group ID: FGBOILERS

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NOx	0.13 lb/MMBTU, when burning natural gas and/or landfill gas ²	Hourly	EUREFBOILER	SC V.1 SC VI. 1	R 336.1205(3)
2. NOx	2.18 lb/hr, when burning natural gas and/or landfill gas ²	Hourly	EUREFBOILER	SC V.1 SC VI. 1	R 336.1205(3)
3. CO	1.42 lb/hr, when burning natural gas and/or landfill gas ²	Hourly	EUREFBOILER	SC V.1 SC VI. 1	R 336.1205(3)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

- Upon issuance of the permit, prior to December 31, 2020 and then within five years of the date of the last test, the permittee shall verify CO and NOx emission rates from EUREFBOILER by testing at owner's expense, in accordance with 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

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.² (R 336.2001, R 336.2003, R 336.2004, R 336.1205, R 336.1225)

VI. MONITORING/RECORDKEEPING

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

1. The applicant shall maintain the following records:
 - a. The amount of natural gas combusted, on a monthly basis.
 - b. The amount of landfill gas combusted, on a monthly basis.

The permittee shall keep records at the facility and make them available to the Department upon request.² (R 336.1201(3), 40 CFR Part 60, Subpart Dc)

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

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVREFBOILER	13 ¹	55 ¹	R 336.1225

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

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

**EUAMMONIA
EMISSION UNIT CONDITIONS**

DESCRIPTION

Two anhydrous ammonia nurse tanks with storage capacity not to exceed 1,000 gallons per tank.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. Except where specific requirements of these special conditions are applicable and more stringent, EUAMMONIA shall comply with the Department of Labor and Economic Growth General Industry Safety Standards, Part 78. Storage and Handling of Anhydrous Ammonia – (1910.111) hereinafter Rule 7801. A copy of this document, which may be obtained by contacting the Michigan Occupational Safety and Health Administration, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, MI 48909-8143, shall be maintained for inspection at the facility.¹ **(R 336.1901)**
2. The permittee shall not operate EUAMMONIA unless the inspection and maintenance program specified in Appendix 10 has been implemented and maintained.¹ **(R 336.1901)**
3. The permittee shall not operate EUAMMONIA unless an emergency response plan, to be followed in the event of an emergency, has been approved by the local fire department or county emergency response agency and is implemented and maintained.¹ **(R 336.1901)**
4. EUAMMONIA shall be located a minimum of 50 feet from the property line; 300 feet from any existing places of residence or private or public assembly; 500 feet from a school, apartment building, or institutional occupancy; and not less than 1000 feet from a hospital or nursing home.¹ **(R 336.1901)**
5. The permittee shall not operate EUAMMONIA unless all transfer operations including transport deliveries are performed by a reliable person properly trained and made responsible for proper compliance with all applicable procedures.¹ **(R 336.1901)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. All containers shall be fitted with safety relief valves in accordance with Rule 7801(b)(9). Such valves shall be stamped with the date manufactured, and shall be replaced, or re-tested and re-certified, at least every five years or more often if there is evidence of damage or deterioration.¹ **(R 336.1225, R 336.1901)**
2. All hoses shall be replaced five years after date of manufacture or more often if there is evidence of damage or deterioration.¹ **(R 336.1225, R 336.1901)**

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall keep, in a satisfactory manner, records of the date, duration, and description of any malfunction or spill occurring from EUAMMONIA, including the estimated amount of ammonia released into the atmosphere. Do not include trace amounts from normal hose coupling bleed downs. The permittee shall keep all records on file at the facility and make them available to the Department upon request.² **(R 336.1201(3))**
2. The permittee shall keep, in a satisfactory manner, records of the date of annual review and approval of the emergency response plan with the local fire department. The permittee shall keep all records on file at the facility and make them available to the Department upon request.² **(R 336.1201(3))**
3. The permittee shall keep, in a satisfactory manner, monthly records of the activities conducted as specified in the Inspection and Maintenance Program in Appendix 10. The permittee shall keep all records on file at the facility and make them available to the Department upon request.¹ **(R 336.1901)**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. The permittee shall notify the Pollution Emergency Alert System (PEAS) 1-800-292-4706 and/or the AQD District Supervisor immediately of any abnormal release of anhydrous ammonia from EUAMMONIA. A normal release includes only hose coupling bleed downs, operation of hydrostatic relief valves, and normal pressure relief from the safety relief valve(s). Relief due to overfilling is not normal. The permittee shall keep all records on file at the facility and make them available to the Department upon request.² **(R 336.1201(3), R 336.1901)**

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. The permittee may replace a nurse tank with a nurse tank that meets all conditions of EUAMMONIA. The permittee shall keep records of the date and description of any replacement tank on file at the facility and make them available to the Department upon request.² **(R 336.1201)**

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).

**EUGENERATOR
 EMISSION UNIT CONDITIONS**

DESCRIPTION

A 70 kilowatts (kW) emergency engine installed April 2016. The engine is subject to Subpart JJJJ Standards of Performance for Stationary Spark Ignition Internal Combustion Engines and Subpart ZZZZ National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. NOx + HC	10 g/kW-hr g/hp-hr	Hourly	EUGENERATOR	SC V.1	40 CFR 60.4231
2. CO	387 g/hp-hr	Hourly	EUGENERATOR	SC V.1	40 CFR 60.4231

II. MATERIAL LIMITS

1. The permittee shall burn only pipeline quality natural gas in EUGENERATOR. **(40 CFR 60.4230)**

III. PROCESS/OPERATIONAL RESTRICTIONS

1. There is no time limit on the use of emergency stationary RICE in emergency situations. **(40 CFR 60.4243(d)(1))**
2. The permittee may operate each engine in EUGENERATOR for no more than 100 hours per calendar year for the purpose of necessary maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing. A petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency internal combustion engines beyond 100 hours per calendar year. **(40 CFR 60.4243(d)(2))**
3. Each engine in EUGENERATOR may operate up to 50 hours per calendar year in non-emergency situations, but those 50 hours are counted towards the 100 hours per calendar year provided for maintenance and testing as provided in SC III.4. Except as provided in 40 CFR 60.4243(d)(3)(i), the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or demand response, or to generate income for the permittee to supply non-emergency power as part of a financial arrangement with another entity. **(40 CFR 60.4243(d)(3))**

4. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met: **(40 CFR 60.4243(d)(3)(i))**
 - a. The engine is dispatched by the local balancing authority or local transmission and distribution system operator.
 - b. The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
 - c. The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
 - d. The power is provided only to the facility itself or to support the local transmission and distribution system.
 - e. The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching.
5. The permittee shall operate and maintain each engine included for EUGENERATOR such that it meets the emission limits over the entire life of the engine. **(40 CFR 60.4234, 40 CFR 60.4243(b))**
6. If the permittee purchased a certified engine, according to procedures specified in 40 CFR Part 60, Subpart JJJJ, for the same model year, the permittee shall meet the following requirements for EUGENERATOR:
 - a. Operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions.
 - b. May only adjust engine settings according to and consistent with the manufacturer's emission-related written instructions.
 - c. Meet the requirements as specified in 40 CFR 1068 Subparts A through D.

If the permittee does not operate and maintain the certified engine and control device according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine and be subject to SC III.5. **(40 CFR 60.4243(b)(1))**

7. If the permittee purchased a non-certified engine or a certified engine operating in a non-certified manner, the permittee shall keep a maintenance plan for EUGENERATOR and shall, to the extent practicable, maintain and operate each engine in a manner consistent with good air pollution control practice for minimizing emissions. **(40 CFR 60.4243(b)(2))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The engine in EUGENERATOR shall be certified to meet the applicable emission standard of 40 CFR 60.4233. The permittee shall install and configure each engine according to the manufacturer's specifications. **(40 CFR 60.4243)**
2. The permittee shall equip and maintain EUGENERATOR with non-resettable hours meters to track the operating hours. **(40 CFR 60.4237)**
3. The nameplate capacity of EUGENERATOR shall not exceed 70 kW, as certified by the equipment manufacturer. **(40 CFR 60.4230)**

V. TESTING/SAMPLING

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

1. If the engine included in EUGENERATOR is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must demonstrate compliance as follows:

- a. Conduct an initial performance test to demonstrate compliance with the applicable emission standards in 40 CFR 60.4233(e), within 60 days after achieving the maximum production rate at which the engine included in EUGENERATOR will be operated, but not later than 180 days after initial startup of engine included in EUGENERATOR, or within 1 year after the engine included in EUGENERATOR 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.
- b. If a performance test is required, the performance tests shall be conducted according to 40 CFR 60.4244.
- c. Conduct subsequent performance testing every 8,760 hours of engine operation or every 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

If a performance test is required, no less than 30 days prior to testing, a complete test plan shall be submitted 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. **(40 CFR 60.8, 40 CFR 60.4243, 40 CFR 60.4244, 40 CFR 60.4245, 40 CFR Part 60, Subpart JJJJ)**

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 30th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. **(R 336.1213(3))**
2. For certified engines in EUGENERATOR, the permittee shall keep, in a satisfactory manner, the following records:
 - a. Documentation indicating that each engine has been maintained according to manufacturer written instructions, is certified to meet the emission standards, and other information as required in 40 CFR Parts 90, 1048, 1054, and 1060, as applicable.

The permittee shall keep all records on file and make them available to the Department upon request. **(40 CFR 60.4233(e), 40 CFR 60.4243(b))**

3. For non-certified engines in EUGENERATOR (or operated in a non-certified manner), the permittee shall keep, in a satisfactory manner, the following records:
 - a. Testing for each engine, as required in SC V.2;
 - b. Maintenance activities for each engine, as required by SC III.4.

The permittee shall keep all records on file and make them available to the Department upon request. **(40 CFR 60.4233(e), 40 CFR 60.4243(b))**

4. The permittee shall keep records of notifications submitted for the completion of construction and start-up of EUGENERATOR. **(40 CFR 60.4245(a))**
5. The permittee shall monitor and record the hours of operation of EUGENERATOR during emergencies and non-emergencies, on a monthly, 12-month rolling, and calendar year basis, in a manner acceptable to the AQD District Supervisor. The permittee shall record the time of operation of EUGENERATOR and the reason it was in operation during that time. **(40 CFR 60.4243)**

VII. REPORTING

1. If EUGENERATOR is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 60.4243(d)(3)(i), the permittee must submit an annual report including the following: **(40 CFR 60.4245(e), 40 CFR Part 60, Subparts A and JJJJ)**

- a. The company name and address where the engine is located;
 - b. Date of the report and beginning and ending dates of the reporting period;
 - c. Engine site rating and model year;
 - d. Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place;
 - e. Hours spent for operation for the purposes specified in 40 CFR 60.4243(d)(3)(i), including the date, start time, and end time for engine operation for the purposes specified in 40 CFR 60.4243(d)(3)(i). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.
2. The permittee shall submit a notification specifying whether the engine included in EUGENERATORS will be operated in a certified or a non-certified manner to the AQD District Supervisor, in writing, within 30 days following the initial startup of the engine and within 30 days of switching the manner of operation. **(R 336.1213(3))**

VIII. STACK/VENT RESTRICTIONS

NA

IX. OTHER REQUIREMENTS

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 JJJJ, as they apply to EUGENERATOR. **(40 CFR Part 60, Subparts A & JJJJ)**
2. 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 National Emission Standards for Hazardous Air Pollutants as specified in 40 CFR Part 63, Subpart ZZZZ, as they apply to EUGENERATOR. **(40 CFR Part 60, Subpart A, 40 CFR Part 63, Subpart ZZZZ)**

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).

D. FLEXIBLE GROUP 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
FGHANDLING	Equipment used for off loading soybeans including: Receiving pits, Storage bins, Bean Cleaners, South Receiving Leg, North Reclaim Leg, Wet Leg, Pit Leg, Cleaner Leg, Receiving Belts, Bin Fill conveyors, Bin Reclaim conveyors, Cyclones, Baghouses, and Oil Spray Applicators. This equipment, except for storage bins, is subject to NSPS DD.	EUBIN EUHANDLING EUHANDLING2
FGEXTRACTION	Equipment used to remove oil from soybeans including: Extractor, DTDC, Spent Flake Conveyor, Evaporators, Oil Stripper Solvent System, Plug Screw Aspiration, Solvent Dump Tank, Solvent Storage Tank, MO Stripper, MO Absorber, MO Heater, MO Cooler, MO Heat Exchanger, MO Storage Tanks, Main Gas Vent, Vacuum Gauge and Fan Motion Alarm, Cooler, Cooler Cyclone with level alarms, Dryer #1, Dryer #2, Dryer Cyclones with level alarms. This is also the equipment and processes subject to the Solvent Extraction for Vegetable Oil Production NESHAP (Subpart GGGG). (PTI No. 165-14)	EUEXTRACTION EUDTDC EUSTORAGETANK EUDUMPTANK
FGLF/NGENGINES	Two 2,300 BHP Caterpillar 3520C landfill or natural gas fired engine (PTI No. 94-04D)	EULF/NGENGINE1 EULF/NGENGINE2
FGBOILERS	Gas 1; Fuel Subcategory requirements for existing Boilers/Process Heaters at major sources of Hazardous Air Pollutants per 40 CFR Part 63, Subpart DDDDD. These existing boilers or process heaters must comply with this subpart no later than January 31, 2016, except as provided in 40 CFR 63.6(i).	EUBOILER EULF/NGBLR5 EUNUKBOILER EUREFBOILER
FGRULE290	Any emission unit that emits air contaminants and is exempt from the requirements of Rule 201 pursuant to Rules 278, 278a and 290. Emission units installed/modified before December 20, 2016, may show compliance with Rule 290 in effect at the time of installation/modification.	EUREFINERY

FGHANDLING
FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Equipment used for off loading soybeans including: Receiving pits, Storage bins, Bean Cleaners, South Receiving Leg, North Reclaim Leg, Wet Leg, Pit Leg, Cleaner Leg, Receiving Belts, Bin Fill conveyors, Bin Reclaim conveyors, Cyclones, Baghouses, and Oil Spray Applicators. This equipment, except for storage bins, is subject to NSPS DD.

Emission Units: EUBIN, EUHANDLING, EUHANDLING2

POLLUTION CONTROL EQUIPMENT

Cyclones, Baghouse systems, oil spray applicators

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. PM	0.023 grams per dscm ²	Hourly	Each stack in FGHANDLING	SC V.1	40 CFR Part 60, Subparts A & DD
2. PM	0.019 pound per 1,000 pounds of exhaust gases, calculated on a dry gas basis ²	Hourly	Each stack in FGHANDLING	SC V.1	R 336.1331(1)(c) 40 CFR Part 60, Subparts A & DD
3. PM10	0.86 pounds per hour ²	Hourly	FGHANDLING EUHANDLING (SVRECSTACK)	SC V.1	R 336.2803 R 336.2804 40 CFR 52.21(c)&(d)
4. PM10	0.51 pounds per hour ²	Hourly	FGHANDLING EUHANDLING2 (SVRECSTACK2)	SC V.1	R 336.2803 R 336.2804 40 CFR 52.21(c)&(d)
5. PM2.5	0.69 pounds per hour ²	Hourly	FGHANDLING EUHANDLING (SVRECSTACK)	SC V.1	R 336.2803 R 336.2804 40 CFR 52.21(c)&(d)
6. PM2.5	0.41 pounds per hour ²	Hourly	FGHANDLING EUHANDLING2 (SVRECSTACK2)	SC V.1	R 336.2803 R 336.2804 40 CFR 52.21(c)&(d)
7. Opacity	0% ²	6-minute average	Grain handling operations (EUHANDLING, EUHANDLING2)	SC VI.4	R 336.1301(1)(c) 40 CFR Part 60, Subparts A & DD
8. Opacity	10% ²	6-minute average	Grain loading operations	SC VI.4	R 336.1301(1)(c) 40 CFR Part 60, Subparts A & DD
9. Opacity	5% ²	6-minute average	Grain unloading operations (EUHANDLING, EUHANDLING2)	SC VI.4	R 336.1301(1)(c) 40 CFR Part 60, Subparts A & DD

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Soybeans	10,500 tons per day ²	Calendar day / Received	FGHANDLING	SC VI.1	R 336.2803 R 336.2804 40 CFR 52.21(c)&(d)
2. Soybeans	450,000 tons per year ²	12-month rolling time period as determined at the end of each calendar month / Received	FGHANDLING	SC VI.3	R 336.2803 R 336.2804 40 CFR 52.21(c)&(d)

III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall not operate any soybean receiving equipment unless the receiving area baghouse and cyclone is installed and operating properly.² (R 336.1910, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d))
- The permittee shall not unload soybeans into either hopper, nor transport soybeans via the south receiving leg, the north reclaim leg, the wet leg, the 18 inch receiving belt conveyor, the 16 inch reclaim screw conveyor, the drag conveyor, and/or the transfer drag conveyor, unless the oil application system is installed and operating properly.² (R 336.1910, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d))
- The permittee shall not operate the truck dumper without the enclosure in place and the south access door closed.² (R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d))

IV. DESIGN/EQUIPMENT PARAMETER(S)

- The permittee shall equip and maintain the portion of the drive south of the dump pit with an enclosure.² (R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d))

V. TESTING/SAMPLING

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

- Upon issuance of the permit, prior to December 31, 2018 and then within five years of the date of the last test, the permittee shall verify PM, PM10, and PM2.5 emission rates from EUHANDLING and EUHANDLING2 by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in:

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

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.² (R 336.2001, R 336.2003, R 336.2004, R 336.1331, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d), 40 CFR Part 60, Subparts A & DD)

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 daily records of tons of soybeans received.² (R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d))
2. The permittee shall keep monthly records of tons of soybeans received.² (R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d))
3. The permittee shall keep yearly records of tons of soybeans received based on a 12-month rolling time period as determined at the end of each calendar month.² (R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d))
4. The permittee shall conduct and record daily non-certified visual emission observations of the grain handling operations, grain loading operations, and grain unloading operations when process is operating.² (R 336.1301(1)(c), R 336.1303, 40 CFR Part 60, Subparts A & DD)

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

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVRECSTACK	24 ²	90 ²	R 336.2803, R 336.2804, R 336.1201(3)
2. SVRECSTACK2	16 ²	35 ²	R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d)

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable requirements of 40 CFR Part 60, Subparts A and DD.² (40 CFR Part 60, Subparts A and DD)

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).

FGEXTRACTION FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Equipment used to remove oil from soybeans including: Extractor, DTDC, Spent Flake Conveyor, Evaporators, Oil Stripper Solvent System, Plug Screw Aspiration, Solvent Dump Tank, Solvent Storage Tank, MO Stripper, MO Absorber, MO Heater, MO Cooler, MO Heat Exchanger, MO Storage Tanks, Main Gas Vent, Vacuum Gauge and Fan Motion Alarm, and DTDC Cyclones. This is also the equipment and processes subject to the Solvent Extraction for Vegetable Oil Production NESHAP (Subpart GGGG). (PTI No. 165-14)

Emission Units: EUEXTRACTION, EUDTDC, EUSTORAGETANK, EUDUMPTANK

POLLUTION CONTROL EQUIPMENT

Four cyclones, absorber system

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. VOC	7.12 pounds per hour ²	Hourly	FGEXTRACTION/ EUEXTRACTION (SVMMAINVENT)	SC V.1	R 336.1225 R 336.1702(a)
2. VOC	30.3 tons per year ²	12-month rolling time period as determined at the end of each calendar month	FGEXTRACTION/ EUEXTRACTION (SVMMAINVENT)	SC VI.10	R 336.1702(a)
3. VOC	14.6 pounds per hour ²	Hourly	FGEXTRACTION/ EUDTDC (SVDTDC)	SC V.1	R 336.1225 R 336.1702(a)
4. VOC	62.2 tons per year ²	12-month rolling time period as determined at the end of each calendar month	FGEXTRACTION/ EUDTDC (SVDTDC)	SC VI.10	R 336.1702(a)
5. PM	0.034 lbs per 1,000 lbs of exhaust gases, calculated on a dry gas basis ²	Hourly	FGEXTRACTION/ EUDTDC (SVDTDC)	SC V.2	R 336.1331(1)(c)
6. PM10	3.03 pph ²	Hourly	FGEXTRACTION/ EUDTDC (SVDTDC)	SC V.2	R 336.2803 R 336.2804 40 CFR 52.21(c)&(d)
7. PM2.5	2.42 pph ²	Hourly	FGEXTRACTION/ EUDTDC (SVDTDC)	SC V.2	R 336.2803 R 336.2804 40 CFR 52.21(c)&(d)
8. Visible Emissions	10% Opacity ²	6-minute average	FGEXTRACTION/ EUDTDC (SVDTDC)	SC VI.11	R 336.1301(1)(c)

II. MATERIAL LIMIT(S)

Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. Soybeans	1,050 tons per day ²	Calendar day	Extraction plant	SC VI.5	R 336.1702(a)
2. Soybeans	383,250 tons per year ²	12-month rolling time period as determined at the end of each calendar month	Extraction plant	SC VI.6	R 336.1702(a)
3. Extraction solvent	0.150 gallon per ton of soybeans processed ²	12-month rolling time period as determined at the end of each calendar month	Extraction plant	SC VI.9	R 336.1225 R 336.1702(a) 40 CFR Part 63, Subpart GGGG
4. Extraction solvent	0.250 gallon per ton of soybeans processed ²	Three-month rolling time period as determined at the end of each calendar month	Extraction plant	SC VI.8	R 336.1225 R 336.1702(a)

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. During a malfunction (as defined in 40 CFR 63.2), the permittee shall meet the requirements associated with one of two compliance options. Within 15 days of the beginning date of the malfunction, the permittee shall choose to comply with the NESHAP under the requirements as if continuing under normal operation, or to comply with the NESHAP under the requirements outlined in Appendix 9 for a malfunction period.² **(40 CFR 63.2850)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate the extractor and its associated condenser, the desolventizer and/or toaster portions of the DTDC unit and their associated condenser, the spent flakes conveyor, either of the two evaporators and their associated condenser, and the oil stripper, unless the absorber system is installed and operating properly and in accordance with the approved MAP and PMP.² **(R 336.1225, R 336.1702(a), R 336.1910, R 336.1911)**
2. The permittee shall not add or remove extraction solvent from either the 15,000 gallon extraction solvent storage tank or the 15,000 gallon extraction solvent dump tank unless the vent from the respective tank is tied into the plant's absorber system and that absorber system is installed and operating properly and in accordance with the approved MAP and PMP.² **(R 336.1225, R 336.1702(a), R 336.1910, R 336.1911)**
3. The permittee shall not operate any portions of EU DTDC unless the four associated cyclones are installed and operating properly.² **(R 336.1910, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d))**
4. The permittee shall equip and maintain the absorber system with a device to measure changes in the vacuum across the system.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. Upon issuance of the permit, prior to December 31, 2018 and then within five years of the date of the last test, the permittee shall verify VOC emission rates from EU EXTRACTION (SVM INVENT) 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
VOC	40 CFR Part 60, Appendix A

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.² **(R 336.1225, R 336.1702(a), R 336.2001, R 336.2003, R 336.2004)**

- 2. Upon issuance of the permit, prior to December 31, 2020 and then within five years of the date of the last test, permittee shall verify VOCs, PM, PM10, and PM2.5 emission rates from EUDTDC by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in:

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

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.² **(R 336.1331, R 336.2001, R 336.2003, R 336.2004, R 336.2803, R 336.2804, 40 CFR 52.21(c)&(d))**

VI. MONITORING/RECORDKEEPING

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

- 1. For SC VI.2 and VI.3 below, the permittee shall:² **(R 336.1225, R 336.1702(a))**
 - a. Promptly examine the cause of the variance.
 - b. Respond as needed to minimize the possibility of exceeding any emission limits in this permit.
 - c. Implement any measures necessary to return the affected parameter(s) to the normal range.
- 2. The permittee shall record the desolventizer toaster sparge deck temperature alarm hourly, normal range greater than 195°F.² **(R 336.1225, R 336.1702(a))**
- 3. The permittee shall record the percent LEL in main gas vent a minimum of four times daily, normal range 0-50%.² **(R 336.1225, R 336.1702(a))**
- 4. The permittee shall record each operating parameter alarm, if outside the normal range for all monitored components operating.² **(R 336.1225, R 336.1702(a))**
- 5. The permittee shall keep daily records of tons of soybeans fed to the soybean oil extraction plant.² **(R 336.1225, R 336.1702(a))**
- 6. The permittee shall determine and record the monthly/annual tons of each oilseed type processed as described in 40 CFR 63.2855.² **(R 336.1225, R 336.1702(a), 40 CFR 63.2850)**
- 7. The permittee shall determine and record the extraction solvent loss, in gallons, as described in 40 CFR 63.2853.² **(R 336.1225, R 336.1702(a), 40 CFR 63.2850)**
- 8. The permittee shall keep monthly records of the results of the three-month comparisons of extraction solvent used per ton of soybeans processed.² **(R 336.1225, R 336.1702(a))**

9. The permittee shall determine and record the actual solvent loss, weighted average volume fraction HAP, oilseed processed, and compliance ratio for each 12 operating month period as described in 40 CFR 63.2840, by the end of the following calendar month.² **(R 336.1225, R 336.1702(a), 40 CFR 63.2850)**
10. Using the most recent stack test data, the permittee shall keep monthly VOC calculations of both the main gas vent emissions and the combined dryer cyclones emissions on a 12-month rolling time period.² **(R 336.1225, R 336.1702(a))**
11. The permittee shall conduct and record daily a 6-minute average, non-certified visual observation of FGEXTRACTION (SVDTDC) when the process is operating.² **(R 336.1301(1)(c), R 336.1303, R 336.1910)**
12. The permittee shall maintain all of the necessary records used to demonstrate compliance with the Solvent Extraction for Vegetable Oil Production NESHAP in accordance with 40 CFR 63.2862.² **(40 CFR 63.2850)**
13. The permittee shall record the volume fraction of HAP present at greater than 1% by volume and gallons of extraction solvent in each shipment received.² **(40 CFR 63.2850)**
14. The permittee shall determine and record the weighted average volume fraction of HAP in the extraction solvent received as described in 40 CFR 63.2854, by the end of the following calendar month.² **(40 CFR 63.2850)**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. At the end of each calendar month, the permittee shall compare the amount of extraction solvent used per ton of soybeans processed during the 3-month and 12-month rolling time periods ending that month to the material usage ratio limit in Section II of FGEXTRACTION. Within 15 calendar days of the end of the month, the permittee shall notify the AQD District Supervisor in writing of any exceedances of the limit. The notification shall include the amount of each exceedance, the three-month or twelve-month period during which each exceedance occurred, the reason for the exceedance, and a description of any measures taken to correct the condition causing the exceedance and/or to prevent future exceedances from occurring.² **(R 336.1225, R 336.1702(a))**
5. The permittee shall submit an annual compliance certification, in accordance with 40 CFR 63.2861(a), to the AQD District Supervisor.² **(40 CFR 63.2850)**
6. The permittee shall submit periodic Startup, Shutdown, and Malfunction (SSM) reports, in accordance with 40 CFR 63.2861(c), to the AQD District Supervisor. The reports shall be postmarked by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30.² **(40 CFR 63.2850)**
7. The permittee shall submit immediate SSM reports, in accordance with 40 CFR 63.2861(d), to the AQD District Supervisor.² **(40 CFR 63.2850)**
8. The permittee shall submit a deviation notification report by the end of the calendar month following the month in which it was determined that the compliance ratio exceeded 1.00, in accordance with 40 CFR 63.2861(b), to the AQD District Supervisor.² **(40 CFR 63.2850)**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVMAINVENT	4 ¹	60.5 ¹	R 336.1225
2. SVDTDC	32 ²	75 ²	R 336.1225, R 336.2803, R 336.2804 40 CFR 52.21(c)&(d)

IX. OTHER REQUIREMENT(S)

1. The permittee shall have an approvable plan for demonstrating compliance, in accordance with 40 CFR 63.2851, with the NESHAP submitted to the AQD District Supervisor and implement such plan.² **(40 CFR 63.2850)**
2. The permittee shall have an approvable written Startup, Shutdown, and Malfunction (SSM) Plan, in accordance with the provisions in 40 CFR 63.2852, submitted to the AQD District Supervisor.² **(40 CFR 63.2850)**
3. The permittee shall use an oilseed solvent loss factor (SLF) of 0.2 for determining allowable HAP loss in compliance determinations. This factor is taken from Table 1 of 40 CFR 63.2840 for conventional soybean processing.² **(40 CFR 63.2840)**
4. The permittee shall comply with all applicable requirements of 40 CFR Part 63, Subparts A & GGGG.² **(40 CFR Part 63, Subparts A & GGGG)**

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).

**FGLF/NGENGINES
 FLEXIBLE GROUP CONDITIONS**

DESCRIPTION

Two (2) 2,300 BHP Caterpillar 3520C reciprocating internal combustion engines fueled with treated landfill or natural gas. (PTI No. 94-04D)

Emission Units: EULF/NGENGINE1 and EULF/NGENGINE2

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1. NOx	4.56 lb/hr ²	Hourly	EULF/NGENGINE1 EULF/NGENGINE2 (The limit is applicable to each individual engine)	SC V.1	R 336.1205(3) R 336.1803 R 336.1804
2. CO	22.44 lb/hr ²	Hourly	EULF/NGENGINE1 EULF/NGENGINE2 (The limit is applicable to each individual engine)	SC V.1	R 336.1205(3) R 336.1803 R 336.1804
3. VOC	4.02 lb/hr ²	Hourly	EULF/NGENGINE1 EULF/NGENGINE2 (The limit is applicable to each individual engine)	SC V.1	R 336.1205(3) R 336.1702
4. Formaldehyde	2.8 lb/hr ¹	Hourly	EULF/NGENGINE1 EULF/NGENGINE2 (The limit is applicable to each individual engine)	SC V.1	R 336.1225(1) & (2)
5. SO ₂	2.77 lb/hr ²	Hourly	EULF/NGENGINE1 EULF/NGENGINE2 (The limit is applicable to each individual engine)	SC V.1	R 336.1205(3) R 336.1803 R 336.1804

II. MATERIAL LIMIT(S)

1. The permittee shall only use landfill or natural gas in FGLF/NGENGINES.² **(R 336.1201(3))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall combust at least 10% landfill gas in FGLF/NGENINGES. The percentage shall be based on the annual gross heat input.² **(40 CFR Part 63, Subpart ZZZZ, Table 2d)**
2. The permittee shall implement and maintain a Malfunction Abatement/Preventative Maintenance Plan (MAP/PMP) for FGLF/NGENGINES. After approval of the MAP/PMP by the AQD District Supervisor, the permittee shall not operate FGLF/NGENGINES unless the MAP/PMP, or an alternate plan approved by the AQD District Supervisor, is implemented and maintained. The plan shall incorporate procedures recommended by the equipment manufacturer as well as incorporating standard industry practices. At a minimum the plan shall include:
 - a. Identification of the equipment and, if applicable, air-cleaning device, and the supervisory personnel responsible for overseeing the inspection, maintenance, and repair.
 - b. Description of the items or conditions to be inspected and frequency of the inspections or repairs.
 - c. Identification of the equipment and, if applicable, air-cleaning device, operating parameters that shall be monitored to detect a malfunction or failure, the normal operating range of these parameters and a description of the method of monitoring or surveillance procedures.
 - d. Identification of the major replacement parts that shall be maintained in inventory for quick replacement.
 - e. 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 the plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction at the time the plan is initially developed, the owner or operator shall revise the plan within 45 days after such an event occurs and submit the revised plan for approval to the AQD District Supervisor. Should the AQD determine the MAP/PMP to be inadequate, the AQD District Supervisor may request modification of the plan to address those inadequacies.² **(R 336.1911, R 336.1912)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

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

- 1 Upon issuance of the permit, prior to December 31, 2018, and every five years thereafter, the permittee shall verify CO, Formaldehyde, VOC, NO_x, and SO₂ emission rates from EULF/NGENGINE1 and EULF/NGENGINE2 while firing landfill gas by testing at owner's expense, in accordance with Department requirements. Testing shall be performed using an approved EPA Method listed in:

Pollutant	Test Method Reference
NO _x	40 CFR Part 60, Appendix A
SO ₂	40 CFR Part 60, Appendix A
CO	40 CFR Part 60, Appendix A
VOC	40 CFR Part 60, Appendix A
HAPs	40 CFR Part 63, Appendix A

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test.² **(R 336.2001, R 336.2003, R 336.2004, R 336.1205(3), R 336.1225)**

See Appendix 5

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor and make them available by the last day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition.² **(R 336.1205, R 336.1225, R 336.1702, R 336.2803, R 336.2804, R 336.2810, 40 CFR 52.21(c)&(d))**
2. The applicant shall maintain the following records for EULF/NGENGINE1 and EULF/NGENGINE2 separately:
 - a. The amount of natural gas combusted, on a monthly basis.
 - b. The amount of landfill gas combusted, on a monthly basis.
 - c. The heat content (Btu/cubic foot) of natural gas, and landfill gas, as measured on a monthly basis
 - d. The hours of operation per calendar day.

The permittee shall keep records at the facility and make them available to the Department upon request.² **(R 336.1205(3))**

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

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

Stack & Vent ID	Maximum Exhaust Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVHEATRECOVERY	28 ²	78 ²	R 336.1225, R 336.2803, R 336.2804
2. SVLF/NGENGINE1	14 ²	60 ²	R336.1225, R 336.2803, R 336.2804
3. SVLF/NGENGINE2	14 ²	60 ²	R336.1225, R 336.2803, R 336.2804

IX. OTHER REQUIREMENT(S)

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

Footnotes:

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

FGBOILERS FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Gas 1; Fuel Subcategory requirements for existing Boilers/Process Heaters at major sources of Hazardous Air Pollutants per 40 CFR Part 63, Subpart DDDDD.

Emission Units: EUBOILER, EULF/NGBLR5, EUNUKBOILER, EUREFBOILER

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

NA

II. MATERIAL LIMIT(S)

1. The permittee shall only burn fuels as allowed in the EULF/NGBLR5, EUNUKBOILER, EUREFBOILER designed to burn gas 1 subcategory definition in 40 CFR 63.7575. **(40 CFR 63.7499(I))**
2. The permittee shall only burn natural gas, distillate oil, landfill gas and soy oil as fuel for EUBOILER.² **(40 CFR 52.21(c)&(d))**

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee must meet the requirements in paragraphs (a)(1) and (3) of 40 CFR 63.7500, as listed below, except as provided in paragraphs (b) and (e) of 40 CFR 63.7500, stated in SC III.2 and SC III.3. The permittee must meet these requirements at all times the affected unit is operating, except as provided in paragraph (f) of 40 CFR 63.7500, stated in SC III.4. **(40 CFR 63.7500(a))**
 - a. The permittee must meet each work practice standard in Table 3 of 40 CFR Part 63, Subpart DDDDD that applies to the boiler or process heater, for each boiler or process heater at the source. **(40 CFR 63.7500(a)(1))**
 - b. At all times, the permittee must operate and maintain any affected source (as defined in 40 CFR 63.7490, stated in SC IX.1), 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))**
2. As provided in 40 CFR 63.6(g), EPA may approve use of an alternative to the work practice standards. **(40 CFR 63.7500(b))**
3. Boilers and process heaters in the units designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13 of 40 CFR Part 63, Subpart DDDDD, or the operating limits in Table 4 of 40 CFR Part 63, Subpart DDDDD. Boilers and process heaters in the units designed to burn gas 1 fuel subcategory with a heat input capacity: **(40 CFR 63.7500(e))**

- a. Of less than or equal to 5 million Btu per hour must complete a tune-up every 5 years as specified in 40 CFR 63.7540. **(40 CFR 63.7500(e))**
- b. Greater than 5 million Btu per hour and less than 10 million Btu per hour must complete a tune-up every 2 years as specified in 40 CFR 63.7540. **(40 CFR 63.7500(e))**
4. The above standards apply at all times the affected unit is operating, except during periods of startup and shutdown during which time the permittee must comply only with items 5 and 6 of Table 3 of 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7500(f))**
5. The permittee must complete an initial tune-up by following the procedures described in 40 CFR 63.7540(a)(10)(i) through (vi), no later than the compliance date specified in 40 CFR 63.7495, stated in SC IX.3 (no later than January 31, 2016, except as provided in 40 CFR 63.6(i)), except as specified in paragraph (j) of 40 CFR 63.7510. The permittee must complete the one-time energy assessment specified in Table 3 of 40 CFR Part 63, Subpart DDDDD no later than the compliance date specified in 40 CFR 63.7495, stated in SC IX.3. **(40 CFR 63.7510(e))**
6. If the permittee is required to meet an applicable tune-up work practice standard, the permittee must conduct an annual performance tune-up according to 40 CFR 63.7540(a)(10), stated in SC IX.6.a; biennial performance tune-up according to 40 CFR 63.7540(a)(11), stated in SC IX.6.b; or 5-year performance tune-up according to 40 CFR 63.7540(a)(12), stated in SC IX.6.c. Each annual tune-up specified in 40 CFR 63.7540(a)(10) must be no more than 13 months after the previous tune-up. Each biennial tune-up specified in 40 CFR 63.7540(a)(11) must be conducted no more than 25 months after the previous tune-up. Each 5-year tune-up specified in 40 CFR 63.7540(a)(12) must be conducted no more than 61 months after the previous tune-up. **(40 CFR 63.7515(d))**
7. For startup and shutdown, the permittee must meet the work practice standards according to items 5 and 6 of Table 3 of 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7540(d))**

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. EUBOILER and EUREFBOILER shall have a heat input capacity of greater than or equal to 10 MMBtu per hour. **(40 CFR Part 63, Subpart DDDDD, Table 2)**
2. EULF/NGBLR5 has a heat input capacity of less than 10 MMBtu but greater than 5 MMBtu per hour. **40 CFR Part 63, Subpart DDDDD)**
3. EUNUKBOILER has a heat input capacity of less than 5 MMBtu per hour. **(40 CFR Part 63, Subpart DDDDD)**

V. TESTING/SAMPLING

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

1. If the permittee elects to demonstrate that a gaseous fuel meets the specifications of another gas 1 fuel as defined in 40 CFR 63.7575, the permittee must conduct an initial fuel specification analyses according to 40 CFR 63.7521(f) through (i), stated in SC V.2 through SC V.5, and according to the frequency listed in 40 CFR 63.7540(c), stated in SC V.6, and maintain records of the results of the testing as outlined in 40 CFR 63.7555(g), stated in SC VI.2. For samples where the initial mercury specification has not been exceeded, the permittee will include a signed certification with the Notification of Compliance Status that the initial fuel specification test meets the gas specification outlined in the definition of other gas 1 fuels. **(40 CFR 63.7530(g))**
2. To demonstrate that a gaseous fuel other than natural gas or refinery gas qualifies as another gas 1 fuel, as defined in 40 CFR 63.7575, the permittee must conduct a fuel specification analyses for mercury according to the procedures in paragraphs (g) through (i) of 40 FR 63.7521 and Table 6 of 40 CFR Part 63, Subpart DDDDD, as applicable, except as specified in paragraph (f)(1) through (4) of 40 CFR 63.7521, as listed below. **(40 CFR 63.7521(f))**

- a. The permittee is not required to conduct the fuel specification analyses in paragraphs (g) through (i) of 40 CFR 63.7521, stated in SC V.3 through SC V.5, for natural gas or refinery gas. **(40 CFR 63.7521(f)(1))**
 - b. The permittee is not required to conduct the fuel specification analyses in paragraphs (g) through (i) of 40 CFR 63.7521, stated in SC V.3 through SC V.5, for gaseous fuels that are subject to another subpart of 40 CFR Part 63, Part 60, Part 61, or Part 65. **(40 CFR 63.7521(f)(2))**
 - c. The permittee is not required to conduct the fuel specification analyses in paragraphs (g) through (i) of 40 CFR 63.7521, stated in SC V.3 through SC V.5, on gaseous fuels for units that are complying with the limits for units designed to burn gas 2 (other) fuels. **(40 CFR 63.7521(f)(3))**
 - d. The permittee is not required to conduct the fuel specification analyses in paragraphs (g) through (i) of 40 CFR 63.7521, stated in SC V.3 through SC V.5, for gas streams directly derived from natural gas at natural gas production sites or natural gas plants. **(40 CFR 63.7521(f)(4))**
3. The permittee must develop and submit a site-specific fuel analysis plan for other gas 1 fuels to the EPA Administrator for review and approval according to the following procedures and requirements in paragraphs (g)(1) and (2) of 40 CFR 63.7521, as listed below. **(40 CFR 63.7521(g))**
- a. If the permittee intends to use an alternative analytical method other than those required by Table 6 of 40 CFR Part 63, Subpart DDDDD, the permittee must submit the fuel analysis plan to the Administrator for review and approval no later than 60 days before the date that the permittee intends to conduct the initial compliance demonstration described in 40 CFR 63.7510, stated in SC III.5. **(40 CFR 63.7521(g)(1))**
 - b. The permittee must include the information contained in paragraphs (g)(2)(i) through (vi) of 40 CFR 63.7521, as listed below, in your fuel analysis plan. **(40 CFR 63.7521(g)(2))**
 - i. The identification of all gaseous fuel types other than those exempted from fuel specification analysis under (f)(1) through (3) of 40 CFR 63.7521, stated in SC V.2, anticipated to be burned in each boiler or process heater. **(40 CFR 63.7521(g)(2)(i))**
 - ii. For each anticipated fuel type, the notification of whether the permittee or a fuel supplier will be conducting the fuel specification analysis. **(40 CFR 63.7521(g)(2)(ii))**
 - iii. For each anticipated fuel type, a detailed description of the sample location and specific procedures to be used for collecting and preparing the samples if the procedures are different from the sampling methods contained in Table 6 of 40 CFR Part 63, Subpart DDDDD. Samples should be collected at a location that most accurately represents the fuel type, where possible, at a point prior to mixing with other dissimilar fuel types. If multiple boilers or process heaters are fueled by a common fuel stream it is permissible to conduct a single gas specification at the common point of gas distribution. **(40 CFR 63.7521(g)(2)(iii))**
 - iv. For each anticipated fuel type, the analytical methods from Table 6 of 40 CFR Part 63, Subpart DDDDD, with the expected minimum detection levels, to be used for the measurement of mercury. **(40 CFR 63.7521(g)(2)(iv))**
 - v. If the permittee requests to use an alternative analytical method other than those required by Table 6 of 40 CFR Part 63, Subpart DDDDD, the permittee must also include a detailed description of the methods and procedures that the permittee is proposing to use. Methods in Table 6 of 40 CFR Part 63, Subpart DDDDD shall be used until the requested alternative is approved. **(40 CFR 63.7521(g)(2)(v))**
 - vi. If the permittee will be using fuel analysis from a fuel supplier in lieu of site-specific sampling and analysis, the fuel supplier must use the analytical methods required by Table 6 of 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7521(g)(2)(vi))**
4. The permittee must obtain a single fuel sample for each fuel type according to the sampling procedures listed in Table 6 of 40 CFR Part 63, Subpart DDDDD for fuel specification of gaseous fuels. **(40 CFR 63.7521(h))**

5. The permittee must determine the concentration in the fuel of mercury, in units of microgram per cubic meter, dry basis, of each sample for each other gas 1 fuel type according to the procedures in Table 6 of 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7521(i))**
6. If the permittee elected to demonstrate that the unit meets the specification for mercury for the unit designed to burn gas 1 subcategory, the permittee must follow the sampling frequency specified in paragraphs (c)(1) through (4) of 40 CFR 63.7540, as listed below, and conduct this sampling according to the procedures in 40 CFR 63.7521(f) through (i), stated in SC V.2 through SC V.5. **(40 CFR 63.7540(c))**
 - a. If the initial mercury constituents in the gaseous fuels are measured to be equal to or less than half of the mercury specification as defined in 40 CFR 63.7575, the permittee does not need to conduct further sampling. **(40 CFR 63.7540(c)(1))**
 - b. If the initial mercury constituents are greater than half but equal to or less than 75 percent of the mercury specification as defined in 40 CFR 63.7575, the permittee will conduct semiannual sampling. If 6 consecutive semiannual fuel analyses demonstrate 50 percent or less of the mercury specification, the permittee does not need to conduct further sampling. If any semiannual sample exceeds 75 percent of the mercury specification, the permittee must return to monthly sampling for that fuel, until 12 months of fuel analyses again are less than 75 percent of the compliance level. **(40 CFR 63.7540(c)(2))**
 - c. If the initial mercury constituents are greater than 75 percent of the mercury specification as defined in 40 CFR 63.7575, the permittee will conduct monthly sampling. If 12 consecutive monthly fuel analyses demonstrate 75 percent or less of the mercury specification, the permittee may decrease the fuel analysis frequency to semi-annual for that fuel. **(40 CFR 63.7540(c)(3))**
 - d. If the initial sample exceeds the mercury specification as defined in 40 CFR 63.7575, each affected boiler or process heater combusting this fuel is not part of the unit designed to burn gas 1 subcategory and must be in compliance with the emission and operating limits for the appropriate subcategory. The permittee may elect to conduct additional monthly sampling while complying with these emissions and operating limits to demonstrate that the fuel qualifies as another gas 1 fuel. If 12 consecutive monthly fuel analyses samples are at or below the mercury specification as defined in 40 CFR 63.7575, each affected boiler or process heater combusting the fuel can elect to switch back into the unit designed to burn gas 1 subcategory until the mercury specification is exceeded. **(40 CFR 63.7540(c)(4))**
7. The permittee of an affected source must notify the AQD in writing of his or her intention to conduct a performance test at least 60 calendar days before the performance test is initially scheduled to begin. The permittee shall submit two complete test protocols to the AQD, one to the Technical Programs Unit Supervisor and one to the District Supervisor for approval at least 30 days prior to the anticipated test date. The protocol shall describe the test method(s) and the maximum routine operating conditions, including targets for key operational parameters associated with air pollution control equipment to be monitored and recorded during testing. **(40 CFR 63.7(b)(1), R 336.2001(3))**
8. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor no less than 7 days prior to the anticipated test date. **(R 336.2001(4))**
9. The permittee shall submit two complete test reports of the test results to the AQD, one to the Technical Programs Unit Supervisor and one to the District Supervisor, within 60 days following the last date of the test. **(R 336.2001(5))**

See Appendix 5

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 according to paragraphs (a)(1) and (2) of 40 CFR 63.7555, as listed below. **(40 CFR 63.7555(a))**

- a. 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 semiannual compliance report that the permittee submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv). **(40 CFR 63.7555(a)(1))**
- b. Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in 40 CFR 63.10(b)(2)(viii). **(40 CFR 63.7555(a)(2))**
2. If the permittee elected to demonstrate that the unit meets the specification for mercury for the unit designed to burn gas 1 subcategory, the permittee must maintain monthly records (or at the frequency required by 40 CFR 63.7540(c), stated in SC V.6) of the calculations and results of the fuel specification for mercury in Table 6 of 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7555(g))**
3. If the permittee operates a unit in the unit designed to burn gas 1 subcategory that is subject to 40 CFR Part 63, Subpart DDDDD, and 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 63 or Parts 60, 61, or 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))**
4. The permittee's records must be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1). **(40 CFR 63.7560(a))**
5. As specified in 40 CFR 63.10(b)(1), the permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. **(40 CFR 63.7560(b))**
6. The permittee must keep each record on site, or they must be accessible from on-site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). The permittee can keep the records off site for the remaining 3 years. **(40 CFR 63.7560(c))**

See Appendices 3 and 4

VII. REPORTING

1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. **(R 336.1213(3)(c)(ii))**
2. Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. **(R 336.1213(3)(c)(i))**
3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. **(R 336.1213(4)(c))**
4. The permittee must meet the notification requirements in 40 CFR 63.7545 according to the schedule in 40 CFR 63.7545, both stated in SC VII.8 through SC VII.13, and in Subpart A of 40 CFR 63. **(40 CFR 63.7495(d))**
5. If the permittee owns or operates an existing unit with a heat input capacity of less than 10 million Btu per hour or a unit in the unit designed to burn gas 1 subcategory, the permittee must submit a signed statement in the Notification of Compliance Status report that indicates that the permittee conducted a tune-up of the unit. **(40 CFR 63.7530(d))**

6. The permittee must include with the Notification of Compliance Status a signed certification that either the energy assessment was completed according to Table 3 of 40 CFR Part 63, Subpart DDDDD, and that the assessment is an accurate depiction of the facility at the time of the assessment, or that the maximum number of on-site technical hours specified in the definition of energy assessment applicable to the facility has been expended. **(40 CFR 63.7530(e))**
7. The permittee must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in 40 CFR 63.7545(e), stated in SC VII.11. **(40 CFR 63.7530(f))**
8. The permittee must report each instance in which they did not meet each emission limit and operating limit in Tables 1 through 4 to this subpart that applies. These instances are deviations from the emission limits or operating limits, respectively, in this subpart. These deviations must be reported according to the requirements in 40 CFR 63.7550, cited in SC VII.16. **(40 CFR 63.7540(b))**
9. The permittee must submit to the Administrator all of the notifications in 40 CFR 63.7(b) and (c), 40 CFR 63.8(e), (f)(4) and (6), and 40 CFR 63.9(b) through (h) that apply to the permittee by the dates specified. **(40 CFR 63.7545(a))**
10. As specified in 40 CFR 63.9(b)(2), if permittee starts up the affected source before January 31, 2013, the permittee must submit an Initial Notification not later than 120 days after January 31, 2013. **(40 CFR 63.7545(b))**
11. If the permittee is required to conduct an initial compliance demonstration as specified in 40 CFR 63.7530, stated in SC V.1, the permittee must submit a Notification of Compliance Status according to 40 CFR 63.9(h)(2)(ii). For the initial compliance demonstration for each boiler or process heater, the permittee must submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of all performance test and/or other initial compliance demonstrations for all boiler or process heaters at the facility according to 40 CFR 63.10(d)(2). The Notification of Compliance Status report must contain all the information specified in paragraphs (e)(1) through (8), as applicable. If the permittee is not required to conduct an initial compliance demonstration as specified in 40 CFR 63.7530(a), the Notification of Compliance Status must only contain the information specified in paragraphs (e)(1) and (8) and must be submitted within 60 days of the January 31, 2016 compliance date. **(40 CFR 63.7545(e))**
 - a. A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, a description of the add-on controls used on the unit to comply with 40 CFR Part 63, Subpart DDDDD, description of the fuel(s) burned, including whether the fuel(s) were a secondary material determined by the permittee or the EPA through a petition process to be a non-waste under 40 CFR 241.3, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of 40 CFR 241.3, and justification for the selection of fuel(s) burned during the compliance demonstration. **(40 CFR 63.7545(e)(1))**
 - b. In addition to the information required in 40 CFR 63.9(h)(2), your notification of compliance status must include the following certification(s) of compliance, as applicable, and signed by a Responsible Official: **(40 CFR 63.7545(e)(8))**
 - i. "This facility completed the required initial tune-up for all of the boilers and process heaters covered by 40 CFR Part 63, Subpart DDDDD at this site according to the procedures in 40 CFR 63.7540(a)(10)(i) through (vi)." **(40 CFR 63.7545(e)(8)(i))**
 - ii. "This facility has had an energy assessment performed according to 40 CFR 63.7530(e)." **(40 CFR 63.7545(e)(8)(ii))**
 - iii. Except for units that burn only natural gas, refinery gas, or other gas 1 fuel, or units that qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act, include the following: "No secondary materials that are solid waste were combusted in any affected unit." **(40 CFR 63.7545(e)(8)(iii)),**

12. If the permittee operates a unit designed to burn natural gas, refinery gas, or other gas 1 fuels that is subject to 40 CFR Part 63, Subpart DDDDD, and 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 specified in paragraphs (f)(1) through (5) of 40 CFR 63.7545, as listed below. **(40 CFR 63.7545(f))**
 - a. Company name and address. **(40 CFR 63.7545(f)(1))**
 - b. Identification of the affected unit. **(40 CFR 63.7545(f)(2))**
 - c. Reason the permittee is unable to use natural gas or equivalent fuel, including the date when the natural gas curtailment was declared or the natural gas supply interruption began. **(40 CFR 63.7545(f)(3))**
 - d. Type of alternative fuel that the permittee intends to use. **(40 CFR 63.7545(f)(4))**
 - e. Dates when the alternative fuel use is expected to begin and end. **(40 CFR 63.7545(f)(5))**
13. If the permittee intends to commence or recommence combustion of solid waste, the permittee must provide 30 days prior notice of the date upon which the permittee will commence or recommence combustion of solid waste. The notification must identify: **(40 CFR 63.7545(g))**
 - a. The name of the owner or operator of the affected source, as defined in 40 CFR 63.7490, stated in SC IX.1, the location of the source, the boiler(s) or process heater(s) that will commence burning solid waste, and the date of the notice. **(40 CFR 63.7545(g)(1))**
 - b. The currently applicable subcategories under 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7545(g)(2))**
 - c. The date on which the permittee became subject to the currently applicable emission limits. **(40 CFR 63.7545(g)(3))**
 - d. The date upon which the permittee will commence combusting solid waste. **(40 CFR 63.7545(g)(4))**
14. If the permittee has switched fuels or made a physical change to the boiler or process heater and the fuel switch or physical change resulted in the applicability of a different subcategory, the permittee must provide notice of the date upon which the permittee switched fuels or made the physical change within 30 days of the switch/change. The notification must identify: **(40 CFR 63.7545(h))**
 - a. The name of the owner or operator of the affected source, as defined in 40 CFR 63.7490, stated in SC IX.1, the location of the source, the boiler(s) and process heater(s) that have switched fuels, were physically changed, and the date of the notice. **(40 CFR 63.7545(h)(1))**
 - b. The currently applicable subcategory under 40 CFR Part 63, Subpart DDDDD. **(40 CFR 63.7545(h)(2))**
 - c. The date upon which the fuel switch or physical change occurred. **(40 CFR 63.7545(h)(3))**
15. The permittee must submit each report in Table 9 of 40 CFR Part 63, Subpart DDDDD that applies. **(40 CFR 63.7550(a))**
16. Unless the EPA Administrator has approved a different schedule for submission of reports under 40 CFR 63.10(a), the permittee must submit each report, according to paragraph (h) of 40 CFR 63.7550, by the date in Table 9 of 40 CFR Part 63, Subpart DDDDD and according to the requirements in paragraphs (b)(1) through (4) of 40 CFR 63.7550, as listed below. For units that are subject only to a requirement to conduct an annual tune-up according to 40 CFR 63.7540(a)(10), stated in SC IX.6.a, biennial tune-up according to 40 CFR 63.7540(a)(11), stated in SC IX.6.b, or 5-year tune-up according to 40 CFR 63.7540(a)(12), stated in SC IX.6.c, and not subject to emission limits or Table 4 operating limits, the permittee may submit only an annual,

biennial, or 5-year compliance report, as applicable, as specified in paragraphs (b)(1) through (4) of 40 CFR 63.7550, as listed below, instead of a semiannual compliance report. **(40 CFR 63.7550(b))**

- a. The first semiannual compliance report must cover the period beginning on the compliance date that is specified for each boiler or process heater in 40 CFR 63.7495, stated in SC IX.3, and ending on June 30 or December 31, whichever date is the first date that occurs at least 180 days after the compliance date that is specified for the source in 40 CFR 63.7495, stated in SC IX.3. If submitting an annual, biennial, or 5-year compliance report, the first compliance report must cover the period beginning on the compliance date that is specified for each boiler or process heater in 40 CFR 63.7495 and ending on December 31 within 1, 2, or 5 years, as applicable, after the January 31, 2016 compliance date. **(40 CFR 63.7550(b)(1))**
 - b. The first semiannual compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for each boiler or process heater in 40 CFR 63.7495, stated in SC IX.3. The first annual, biennial, or 5-year compliance report must be postmarked or submitted no later than January 31. **(40 CFR 63.7550(b)(2), 40 CFR 63.10(a)(5))**
 - c. Each subsequent semiannual compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Annual, biennial, and 5-year compliance reports must cover the applicable 1, 2, or 5-year periods from January 1 to December 31. **(40 CFR 63.7550(b)(3))**
 - d. Each subsequent semiannual compliance report must be postmarked or submitted no later than September 15 or March 15, whichever date is the first date following the end of the semiannual reporting period. Annual, biennial, and 5-year compliance reports must be postmarked or submitted no later than March 15. **(40 CFR 63.7550(b)(4), 40 CFR 63.10(a)(5))**
17. The first and subsequent compliance reports may be submitted according to the dates specified in SC VII.2 for semiannual ROP reporting. **(40 CFR 63.7550(b)(5))**
18. A compliance report must contain the following information depending on how the permittee chooses to comply with the limits set in this rule. **(40 CFR 63.7550(c))**
- a. If the facility is subject to the requirements of a tune up the permittee must submit a compliance report with the information in SC VII.18 (d)(i) through (iii) and (ix). **(40 CFR 63.7550(c)(1))**
 - b. If the permittee is complying with the fuel analysis a compliance report must be submitted with the information in SC VII.18(d)(i) through(iii) and (v) through (viii). **(40 CFR 63.7550(c)(2))**
 - c. If a facility is complying with the fuel analysis they must submit a compliance report with the information in paragraphs (c)(5)(i) through (iv), (vi), (x), (xi), (xiii), (xv) of 40 CFR 63.7550. **(40 CFR 63.7550(c)(2))**
 - d. 40 CFR 63.7550(c)(5) is as follows:
 - i. Company and Facility name and address. **(40 CFR 63.7550(c)(5)(i))**
 - ii. Process unit information, emissions limitations, and operating parameter limitations. **(40 CFR 63.7550(c)(5)(ii))**
 - iii. Date of report and beginning and ending dates of the reporting period. **(40 CFR 63.7550(c)(5)(iii))**
 - iv. The total operating time during the reporting period. **(40 CFR 63.7550(c)(5)(iv))**
 - v. The total fuel use by each individual boiler or process heater subject to an emission limit within the reporting period, including, but not limited to, a description of the fuel, whether the fuel has received a non-waste determination by the EPA or the basis for concluding that the fuel is not a waste, and the total fuel usage amount with units of measure. **(40 CFR 63.7550(c)(5)(vi))**
 - vi. A summary of any fuel specification analyses conducted according to 40 CFR 63.7521(f), stated in SC V.2, and 40 CFR 63.7530(g), stated SC V.1. **(40 CFR 63.7550(c)(5)(x))**

- vii. If there are no deviations from any emission limits or operating limits in 40 CFR Part 63, Subpart DDDDD that apply to the permittee, a statement that there were no deviations from the emission limits or operating limits during the reporting period. **(40 CFR 63.7550(c)(5)(xi))**
- viii. If a malfunction occurred during the reporting period, the report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by the permittee during a malfunction of a boiler, process heater, or associated air pollution control device or CMS to minimize emissions in accordance with 40 CFR 63.7500(a)(3), stated in SC III.1.b, including actions taken to correct the malfunction. **(40 CFR 63.7550(c)(5)(xiii))**
- ix. Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual tune-up according to 40 CFR 63.7540(a)(10), stated in SC IX.6.a, biennial tune-up according to 40 CFR 63.7540(a)(10), stated in SC IX.6.b, or 5-year tune-up according to 40 CFR 63.7540(a)(12), stated in SC IX.6.c. Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown. **(40 CFR 63.7550(c)(5)(xiv))**

See Appendix 8

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

1. 40 CFR Part 63, Subpart DDDDD applies to existing affected sources as described in paragraph (a)(1) of 40 CFR 63.7490, as listed below. **(40 CFR 63.7490(a))**
 - a. The affected source of 40 CFR Part 63, Subpart DDDDD is the collection at a major source of all existing industrial, commercial, and institutional boilers and process heaters within a subcategory as defined in 40 CFR 63.7575. **(40 CFR 63.7490(a)(1))**
2. A boiler or process heater is existing if it is not new or reconstructed, as defined below. **(40 CFR 63.7490(d))**
 - a. A boiler or process heater is new if the permittee commences construction of the boiler or process heater after June 4, 2010, and the permittee meets the applicability criteria at the time the permittee commences construction. **(40 CFR 63.7490(b))**
 - b. A boiler or process heater is reconstructed if the permittee meets the reconstruction criteria as defined in 40 CFR 63.2, the permittee commences reconstruction after June 4, 2010, and the permittee meets the applicability criteria at the time the permittee commence reconstruction. **(40 CFR 63.7490(c))**
3. If the permittee has an existing boiler or process heater, the permittee must comply with 40 CFR Part 63, Subpart DDDDD no later than January 31, 2016, except as provided in 40 CFR 63.6(i). **(40 CFR 63.7495(b))**
4. The permittee must be in compliance with the emission limits, work practice standards, and operating limits of 40 CFR Part 63, Subpart DDDDD. These emission and operating limits apply at all times the affected unit is operating except for the periods noted in 40 CFR 63.7500(f), stated in SC III.4. **(40 CFR 63.7505(a))**
5. For affected sources (as defined in 40 CFR 63.7490, stated in SC IX.1) that have not operated since the previous compliance demonstration and more than one year has passed since the previous compliance demonstration, the permittee must complete a subsequent tune-up by following the procedures described in 40 CFR 63.7540(a)(10)(i) through (vi), stated in SC IX.6.a, and the schedule described in 40 CFR 63.7540(a)(13), stated in SC IX.6.d, for units that are not operating at the time of their scheduled tune-up. **(40 CFR 63.7515(g))**

6. The permittee must demonstrate continuous compliance with the work practice standards in Table 3 of 40 CFR Part 63, Subpart DDDDD that applies according to the methods specified in paragraphs (a)(10) through (13) of 40 CFR 63.7540, as listed below. **(40 CFR 63.7540(a))**
- a. If the boiler or process heater has a heat input capacity of 10 million Btu per hour or greater, the permittee must conduct an annual tune-up of the boiler or process heater to demonstrate continuous compliance as specified in paragraphs (a)(10)(i) through (vi) of 40 CFR 63.7540, as listed below. The tune-up must be conducted while burning the type of fuel (or fuels in case of units that routinely burn a mixture) that provided the majority of the heat input to the boiler or process heater over the 12 months prior to the tune-up. This frequency does not apply to units with continuous oxygen trim systems that maintain an optimum air to fuel ratio. **(40 CFR 63.7540(a)(10))**
 - i. 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 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))**
 - ii. 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))**
 - iii. 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))**
 - iv. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_x requirement to which the unit is subject. **(40 CFR 63.7540(a)(10)(iv))**
 - v. 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))**
 - vi. Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (a)(10)(vi)(A) through (C) of 40 CFR 63.7540, as listed below. **(40 CFR 63.7540(a)(10)(vi))**
 - A. The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater. **(40 CFR 63.7540(a)(10)(vi)(A))**
 - B. A description of any corrective actions taken as a part of the tune-up. **(40 CFR 63.7540(a)(10)(vi)(B))**
 - C. The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit. **(40 CFR 63.7540(a)(10)(vi)(C))**
 - b. If the boiler or process heater has a heat input capacity of less than 10 million Btu per hour (except as specified in paragraph (a)(12) of 40 CFR 63.7540), the permittee must conduct a biennial tune-up of the boiler or process heater as specified in paragraphs (a)(10)(i) through (vi) of 40 CFR 63.7540 to demonstrate continuous compliance. **(40 CFR 63.7540(a)(11))**
 - c. If the boiler or process heater has a continuous oxygen trim system that maintains an optimum air to fuel ratio, or a heat input capacity of less than or equal to 5 million Btu per hour and the unit is in the units designed to burn gas 1 subcategory, the permittee must conduct a tune-up of the boiler or process heater every 5 years as specified in paragraphs (a)(10)(i) through (vi) of 40 CFR 63.7540 to demonstrate continuous

compliance. The permittee may delay the burner inspection specified in paragraph (a)(10)(i) of 40 CFR 63.7540 until the next scheduled or unscheduled unit shutdown, but the permittee must inspect each burner at least once every 72 months. If an oxygen trim system is utilized on a unit without emission standards to reduce the tune-up frequency to once every 5 years, set the oxygen level no lower than the oxygen concentration measured during the most recent tune-up. **(40 CFR 63.7540(a)(12))**

- d. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup. **(40 CFR 63.7540(a)(13))**
- 8. Table 10 of 40 CFR Part 63, Subpart DDDDD shows which parts of the General Provisions in 40 CFR 63.1 through 63.15 applies to the permittee. **(40 CFR 63.7565)**

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).

FGRULE290

FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Any emission unit that emits air contaminants and is exempt from the requirements of Rule 201 pursuant to Rules 278, 278a and 290. Emission units installed/modified before December 20, 2016, may show compliance with Rule 290 in effect at the time of installation/modification.

Emission Units installed on or after December 20, 2016: NA

Emission Units installed prior to December 20, 2016: EUREFINERY

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

1. Each emission unit that emits only noncarcinogenic volatile organic compounds or noncarcinogenic materials which are listed in Rule 122(f) as not contributing appreciably to the formation of ozone, if the total uncontrolled or controlled emissions of air contaminants are not more than 1,000 or 500 pounds per month, respectively. **(R 336.1290(2)(a)(i))**
2. Any emission unit for which CO₂ equivalent emissions are not more than 6,250 tons per month and for which the total uncontrolled or controlled emissions of all other air contaminants are not more than 1,000 or 500 pounds per month, respectively, and all the following criteria listed below are met: **(R 336.1290(2)(a)(ii))**
 - a. For toxic air contaminants, excluding noncarcinogenic volatile organic compounds and noncarcinogenic materials which are listed in Rule 122(f) as not contributing appreciably to the formation of ozone, with initial threshold screening levels greater than or equal to 0.04 micrograms per cubic meter and less than 2.0 micrograms per cubic meter, the uncontrolled or controlled emissions shall not exceed 20 or 10 pounds per month, respectively. **(R 336.1290(2)(a)(ii)(A))**
 - b. For toxic air contaminants with initial risk screening levels greater than or equal to 0.04 microgram per cubic meter, the uncontrolled or controlled emissions shall not exceed 20 or 10 pounds per month, respectively. **(R 336.1290(2)(a)(ii)(B))**
 - c. The emission unit shall not emit any toxic air contaminants, excluding non-carcinogenic volatile organic compounds and noncarcinogenic materials which are listed in Rule 122(f) as not contributing appreciably to the formation of ozone, with an initial threshold screening level or initial risk screening level less than 0.04 microgram per cubic meter. **(R 336.1290(2)(a)(ii)(C))**
 - d. For total mercury, the uncontrolled or controlled emissions shall not exceed 0.01 pounds per month from emission units installed on or after December 20, 2016. **(R 336.1290(2)(a)(ii)(D))**
 - e. For lead, the uncontrolled or controlled emissions shall not exceed 16.7 pounds per month from emission units installed on or after December 20, 2016. **(R 336.1290(2)(a)(ii)(E))**
3. Any emission unit that emits only particulate air contaminants without initial risk screening levels and other air contaminants that are exempted under Rule 290(2)(a)(i) or Rule 290(2)(a)(ii), if all the following provisions are met: **(R 336.1290(2)(a)(iii))**

- a. The particulate emissions are controlled by an appropriately designed and operated fabric filter collector or an equivalent control system which is designed to control particulate matter to a concentration of less than or equal to 0.01 pound of particulate per 1,000 pounds of exhaust gases and which does not have exhaust gas flow rate more than 30,000 actual cubic feet per minute. **(R 336.1290(2)(a)(iii)(A))**
- b. The visible emissions from the emission unit are not more than 5% opacity in accordance with the methods contained in Rule 303. **(R 336.1290(2)(a)(iii)(B))**
- c. The initial threshold screening level for each particulate toxic air contaminant, excluding nuisance particulate, is more than 2.0 micrograms per cubic meter. **(R 336.1290(2)(a)(iii)(C))**

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The provisions of Rule 290 apply to each emission unit that is operating pursuant to Rule 290. **(R 336.1290)**
2. The following requirements apply to emission units installed on or after December 20, 2016, utilizing control equipment:
 - a. An air cleaning device for volatile organic compounds shall be installed, maintained, and operated in accordance with the manufacturer's specifications. Examples include the following: **(R 336.1290(2)(b)(i), R 336.1910)**
 - i. Oxidizers and condensers equipped with a continuously displayed temperature indication device.
 - ii. Wet scrubbers equipped with a liquid flow rate monitor.
 - iii. Dual stage carbon absorption where the first canister is monitored for breakthrough and replaced if breakthrough is detected.
 - b. An air cleaning device for particulate matter shall be installed, maintained, and operated in accordance with the manufacturer's specifications or the permittee shall develop a plan that provides to the extent practicable for the maintenance and operation of the equipment in the manner consistent with good air pollution control practices for minimizing emissions. It shall also be equipped to monitor appropriate indicators of performance, for example, static pressure drop, water pressure, and water flow rate. **(R 336.1290(2)(b)(ii), R 336.1910)**

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

NA

VI. MONITORING/RECORDKEEPING

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

1. The permittee shall maintain records of the following information for each emission unit for each calendar month using the methods outlined in EGLE, AQD Rule 290; Permit to Install Exemption Record form (EQP 3558) or in a format that is acceptable to the AQD District Supervisor. **(R 336.1213(3))**
 - a. Records identifying each air contaminant that is emitted. **(R 336.1213(3))**
 - b. Records identifying if each air contaminant is controlled or uncontrolled. **(R 336.1213(3))**

- c. Records identifying if each air contaminant is either carcinogenic or non-carcinogenic. **(R 336.1213(3))**
 - d. Records identifying the ITSL and IRSL, if established, of each air contaminant that is being emitted under the provisions of Rules 290(2)(a)(ii) and (iii). **(R 336.1213(3))**
 - e. Records of material use and calculations identifying the quality, nature, and quantity of the air contaminant emissions in sufficient detail to demonstrate that the actual emissions of the emission unit meet the emission limits outlined in this table and Rule 290. Volatile organic compound emissions from units installed on or after December 20, 2016, shall be calculated using mass balance, generally accepted engineering calculations, or another method acceptable to the AQD District Supervisor. **(R 336.1213(3), R 336.1290(2)(d))**
 - f. Records are maintained on file for the most recent 2-year period and are made available to the department upon request. **(R 336.1213(3), R 336.1290(2)(e))**
2. The permittee shall maintain an inventory of each emission unit that is exempt pursuant to Rule 290. This inventory shall include the following information. **(R 336.1213(3))**
 - a. The permittee shall maintain a written description of each emission unit as it is maintained and operated throughout the life of the emission unit. **(R 336.1290(2)(c), R 336.1213(3))**
 - b. For each emission unit that emits noncarcinogenic particulate air contaminants pursuant to Rule 290(2)(a)(iii), the permittee shall maintain a written description of the control device, including the designed control efficiency and the designed exhaust gas flow rate. **(R 336.1213(3))**
 3. For each emission unit that emits noncarcinogenic particulate air contaminants pursuant to Rule 290(2)(a)(iii), the permittee shall perform a monthly visible emission observation of each stack or vent during routine operating conditions. This observation need not be performed using Method 9. The permittee shall keep a written record of the results of each observation. **(R 336.1213(3))**

See Appendix 4

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

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 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. Acronyms and Abbreviations

Common Acronyms		Pollutant / Measurement Abbreviations	
AQD	Air Quality Division	acfm	Actual cubic feet per minute
BACT	Best Available Control Technology	BTU	British Thermal Unit
CAA	Clean Air Act	°C	Degrees Celsius
CAM	Compliance Assurance Monitoring	CO	Carbon Monoxide
CEM	Continuous Emission Monitoring	CO ₂ e	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
EGLE	Michigan Department of Environment, Great Lakes, and Energy	HAP	Hazardous Air Pollutant
EU	Emission Unit	Hg	Mercury
FG	Flexible Group	hr	Hour
GACS	Gallons of Applied Coating Solids	HP	Horsepower
GC	General Condition	H ₂ S	Hydrogen Sulfide
GHGs	Greenhouse Gases	kW	Kilowatt
HVLP	High Volume Low Pressure*	lb	Pound
ID	Identification	m	Meter
IRSL	Initial Risk Screening Level	mg	Milligram
ITSL	Initial Threshold Screening Level	mm	Millimeter
LAER	Lowest Achievable Emission Rate	MM	Million
MACT	Maximum Achievable Control Technology	MW	Megawatts
MAERS	Michigan Air Emissions Reporting System	NMOC	Non-methane Organic Compounds
MAP	Malfunction Abatement Plan	NO _x	Oxides of Nitrogen
MSDS	Material Safety Data Sheet	ng	Nanogram
NA	Not Applicable	PM	Particulate Matter
NAAQS	National Ambient Air Quality Standards	PM10	Particulate Matter equal to or less than 10 microns in diameter
NESHAP	National Emission Standard for Hazardous Air Pollutants	PM2.5	Particulate Matter equal to or less than 2.5 microns in diameter
NSPS	New Source Performance Standards	pph	Pounds per hour
NSR	New Source Review	ppm	Parts per million
PS	Performance Specification	ppmv	Parts per million by volume
PSD	Prevention of Significant Deterioration	ppmw	Parts per million by weight
PTE	Permanent Total Enclosure	%	Percent
PTI	Permit to Install	psia	Pounds per square inch absolute
RACT	Reasonable Available Control Technology	psig	Pounds per square inch gauge
ROP	Renewable Operating Permit	scf	Standard cubic feet
SC	Special Condition	sec	Seconds
SCR	Selective Catalytic Reduction	SO ₂	Sulfur Dioxide
SNCR	Selective Non-Catalytic Reduction	TAC	Toxic Air Contaminant
SRN	State Registration Number	Temp	Temperature
TEQ	Toxicity Equivalence Quotient	THC	Total Hydrocarbons
USEPA/EPA	United States Environmental Protection Agency	tpy	Tons per year
VE	Visible Emissions	µg	Microgram
		µm	Micrometer or Micron
		VOC	Volatile Organic Compounds
		yr	Year

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

Appendix 2. Schedule of Compliance

A Schedule of Compliance for any applicable requirements that the permittee is not in compliance with at the time of the ROP issuance is supplemental to, and shall not sanction non-compliance with, the underlying applicable requirements on which it is based.

The permittee shall adhere to this schedule of compliance and submit the required certified progress reports accordingly.

Compliance Plan

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

ZFS will conduct testing for FGEXTRACTION (SVMAINVENT). The last testing for EUEXTRACTION occurred on December 6, 2011. The facility has committed to conducting stack testing on the week of August 27, 2018. The facility has also committed to submitting the stack testing plan to EGLE, AQD by June 27, 2018. The stack test report will be submitted to EGLE, AQD within 60 days of the completed test.

Schedule of Compliance

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

Emission Unit/ Flexible Group ID and Condition No.	Applicable Requirement	Remedial Measure	Required Action	Milestone Date(s)	Progress Reports
FGEXTRACTION EUEXTRACTION (SVMAINVENT)	R 336.1225, R 336.1702(a)	Conduct testing in 2018	Submit notification	By June 27, 2018.	June 27, 2018
FGEXTRACTION EUEXTRACTION (SVMAINVENT)	R 336.1225, R 336.1702(a)	Conduct testing in 2018	Conduct testing	During the week of August 27, 2018.	August 31, 2018.
FGEXTRACTION EUEXTRACTION (SVMAINVENT)	R 336.1225, R 336.1702(a)	Conduct testing in 2018	Report results	Within 60 days of the completion of the test.	Within 60 days of the completion of the test.

Progress Reports

The permittee shall submit Certified Progress Reports to the appropriate AQD District Supervisor using EGLE, AQD, Report Certification form (EQP 5736). 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. **(R 336.1213(4)(b))**

Progress reports shall contain the following information:

The projected dates for achieving scheduled activities, milestones or compliance as required in the schedule of compliance. **(R 336.1213(4)(b)(i))**

The actual dates that the activities, milestones, or compliance are achieved. **(R 336.1213(4)(b)(i))**

An explanation of why any dates in the Schedule of Compliance were not or will not be met. **(R 336.1213(4)(b)(ii))**

A description of any preventative or corrective measures adopted in order to ensure that the schedule of compliance is met. **(R 336.1213(4)(b)(ii))**

Appendix 3. 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. 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. Testing Procedures

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

Appendix 6. 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-M4204-2012. 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-M4204-2012b is being reissued as Source-Wide PTI No. MI-PTI-M4204-2018.

Permit to Install Number	ROP Revision Application Number	Description of Equipment or Change	Corresponding Emission Unit(s) or Flexible Group(s)
115-17	NA	A single anhydrous ammonia storage tank and any associated handling process, nurse tanks or applicator tanks. The nominal tank storage capacity shall not exceed 30,000 gallons. For multiple storage tanks at a source: Each tank shall be covered by a separate general permit and shall have an identification number assigned from the application (identified on the Process Information form).	EUAMMONIA
62-15	201500069	PTI No. 62-15 modifies the vertical seed conditioner (VSC) and replaces the existing cyclone. The modifications to the VSC will include redistributing the existing heating coils inside the unit and increasing the airflow from 5,000 acfm to 10,000 acfm. The existing cyclone will be replaced in order to accommodate the increased air flow. The existing cyclone was installed in 1999, however, it was not included in a permit.	NA
94-04D	201500184	PTI No. 94-04D was to remove 12-month rolling recordkeeping from the two natural gas/landfill gas engines and only require	FGLF/NGENGINES

Permit to Install Number	ROP Revision Application Number	Description of Equipment or Change	Corresponding Emission Unit(s) or Flexible Group(s)
		monthly fuel use records. PTI No. 94-04C was needed to accurately reflect the correct, larger engine size. The permit conditions for PTI No. 94-04C had recordkeeping requirements for fuel usage for two natural gas/landfill gas engines. PTI No. 94-04C required fuel usage records for the landfill gas engines on a 12-month rolling time period basis.	
43-11B	201300043	The permit modified ambient air quality monitoring requirements for all process equipment source-wide including equipment covered by other permits, grand-fathered equipment and exempt equipment.	FGFACILITY
271-05B	201500184	The original permit (PTI No. 271-05) for this equipment was issued January 17, 2006. Subsequent to permit issuance, it was discovered that three boilers and two natural gas/landfill gas engines were larger than what was originally permitted. A permit application (271-05A) to correct these discrepancies was submitted in June 2014. As part of the permit review process, the applicant was asked to provide dispersion modeling for all 5 pieces of equipment (the three boilers, and the two natural gas/landfill gas engines). The applicant withdrew the application and re-submitted the same information under a new permit application (271-05B) after the dispersion modeling for both CO and NOx was completed.	EULF/NGBLR5 EUNUKBOILER EUREFBOILER
165-14	201500069	PTI No. 165-14 is for replacement of the existing desolventizer toaster dryer/cooler (DTDC) process equipment with a new system. The current system is controlled by cyclones and emits through two stacks – one for the dryer exhaust (EUDTDCDRYER) and one for the cooler exhaust (EUDTDCCOOLER). The new system will also be controlled by cyclones but have one combined exhaust stack and be permitted as one emission unit – EUDTDC. The company did not request any throughput or emission limits increases	FGEXTRACTION

The following table lists the ROP amendments or modifications issued after the effective date of ROP No. MI-ROP-M4204-2018.

Permit to Install Number	ROP Revision Application Number/Issuance Date	Description of Equipment or Change	Corresponding Emission Unit(s) or Flexible Group(s)
4-19	201900058 / June 10, 2019	Incorporate PTI No. 4-19, which was to remove the meal loadout equipment, which included 4 Loadout Bins, 2 Loadout Spouts from EUPREPEQUIPMENT, since Zeeland	EUPREPEQUIPMENT

Permit to Install Number	ROP Revision Application Number/Issuance Date	Description of Equipment or Change	Corresponding Emission Unit(s) or Flexible Group(s)
		<p>Farm Services claims the equipment is now exempt under Rule 291. The meal loadout equipment previously vented to the Emission Unit EUPREPEQUIPMENT baghouse, but a new, dedicated baghouse was installed to control meal loadout emissions.</p> <p>This project did not change the facility status.</p>	
201-19	202000063 / July 21, 2020	<p>Incorporate PTI No. 201-19 into the ROP, which was for two 1,000-gallon anhydrous ammonia nurse tanks. These tanks are existing and were originally covered by an anhydrous ammonia general PTI. However, since ZFS does not have a permanent anhydrous ammonia storage tank and the nurse tanks are filled off-site, many of the general permit conditions do not apply.</p> <p>Additionally, based on request from the facility and supplied manufacturing data, AQD updated the differential pressure range from 1 to 6 inches to 1 to 8 inches for EUPREPEQUIPMENT to match the updated CAM Plan.</p> <p>AQD Consent Order Number 19-2015 has been terminated, so the references to the associated Consent Order have been removed.</p>	<p>Source-Wide EUAMMONIA EUPREPEQUIPMENT EULF/NGBLR5 FGEXTRACTION FGLF/NGENGINES</p>

Appendix 7. Emission Calculations

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

Appendix 8. 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. Preventative Maintenance Plan

Preventative Maintenance Plan

The permittee shall implement a source wide preventative maintenance plan including, at a minimum, the following: process name, responsible person, control device, monitored parameter, monitoring device, location on control equipment, rationale for monitoring approach, frequency of measurement, corrective action trigger, corrective action period, and QA/QC. Acceptable plans and any modifications shall be submitted to the District Supervisor.

Appendix 10. Inspection and Maintenance Program for Nurse and Applicator Tanks

Inspections to be performed daily and documented at the permittee’s discretion. The permittee shall document all maintenance and repairs.

Tank Identification:	Satisfactory?			Satisfactory?			Satisfactory?		
	Yes	No	Date *	Yes	No	Date *	Yes	No	Date *
1. Tank free of leaks									
2. Paint in good condition									
3. Valves and fittings free from leaks and in good condition									
4. Protective guards in place and in good condition									
5. Outlet openings on valves and lines free of dirt and rust with protective caps in place									
6. Safety relief valves free of debris with rain caps installed									
7. Gages, pressure and liquid level, are operable									
8. Excess flow valves installed and in good condition									
9. Valves properly labeled “liquid” and “vapor”									
10. Vapor and liquid hoses are proper ammonia-type and free of damage or deterioration									
11. Hoses, including those on nurse tanks, securely clamped to the nipples									
12. Hoses suitably racked to prevent kinking and hose on delivery tanks securely fastened to prevent dragging									
13. Tanks securely attached									
14. Trailer tongues, hitches, and safety chains in sound condition									
15. Nurse tank valves locked or capped if site is unattended or not fenced in									
16. Nurse tanks properly labeled									
17. Five gallon or larger can filled with clean water for transport vehicles									
18. Quick disconnects annually reconditioned									

Date Inspected: _____

Inspector: _____

* For each tank, check if condition is satisfactory or not satisfactory. If condition is not satisfactory, include date when corrected. If condition is not applicable, write NA.