DRAFT/PROPOSED

AIR EMISSION PERMIT NO. 15100026- 012
Major Amendment

IS ISSUED TO

Chippewa Valley Ethanol Co LLLP

CHIPPEWA VALLEY ETHANOL CO LLLP
270 20th Street Northwest
Benson, Swift County, MN 56215

The emission units, control equipment and emission stacks at the stationary source authorized in this permit amendment are as described in the Permit Applications Table.

The conditions included in Stage 1 of this permit action are effective on the Stage 1 Issuance Date shown below. Stage 1 conditions authorize construction of the facility at the address listed above until final action is taken on Stage 2. Air Emission Permit No. 15100026-011 remains effective until the Stage 2 Issue Date shown below.

Beginning on the Stage 2 Issue Date shown below, Air Emission Permit No. 15100026-012 supersedes Air Emission Permit No. 15100026-011 and authorizes the Permittee to operate the stationary source at the address listed above unless otherwise noted in Table A. The Permittee must comply with all the conditions of the permit. Any changes or modifications to the stationary source must be performed in compliance with Minn. R. 7007.1150 to 7007.1500. Terms used in the permit are as defined in the state air pollution control rules unless the term is explicitly defined in the permit.

Unless otherwise indicated, all the Minnesota rules cited as the origin of the permit terms are incorporated into the State Implementation Plan under 40 CFR § 52.1220 and as such are enforceable by U.S. Environmental Protection Agency (EPA) Administrator or citizens under the Clean Air Act.

Permit Type: Federal Permit; Part 70/Limits to Avoid NSR; Limits to Avoid NSR
Operating Permit Issue Date: 8/24/2011
Major Amendment Issue Date: <issue date>
Expiration Date: 08/24/2016 – Title I Conditions do not expire.

Stage 1 Issuance:

Don Smith, P.E., Manager
Air Quality Permits Section
Industrial Division

for John Linc Stine
Commissioner
Minnesota Pollution Control Agency

Stage 2 Issuance:

Don Smith, P.E., Manager
Air Quality Permits Section
Industrial Division

for John Linc Stine
Commissioner
Minnesota Pollution Control Agency

Permit Applications Table

Permit Type	Application Date	Permit Action
Total Facility Operating Permit -Reissuance	12/20/2010	011
Administrative Amendment	8/2/2012	012
Major Amendment	12/31/2012	012

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NOTICE TO THE PERMITTEE:

Your stationary source may be subject to the requirements of the Minnesota Pollution Control Agency's (MPCA) solid waste, hazardous waste, and water quality programs. If you wish to obtain information on these programs, including information on obtaining any required permits, please contact the MPCA general information number at:

Metro Area	651-296-6300
Outside Metro Area	1-800-657-3864
TTY	651-282-5332

The rules governing these programs are contained in Minn. R. chs. 7000-7105. Written questions may be sent to: Minnesota Pollution Control Agency, 520 Lafayette Road North, St. Paul, Minnesota 55155-4194.

Questions about this air emission permit or about air quality requirements can also be directed to the telephone numbers and address listed above.

PERMIT SHIELD:

Subject to the limitations in Minn. R. 7007.1800, compliance with the conditions of this permit shall be deemed compliance with the specific provision of the applicable requirement identified in the permit as the basis of each condition. Subject to the limitations of Minn. R. 7007.1800 and 7017.0100, subp. 2, notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements.

FACILITY DESCRIPTION:

The Chippewa Valley Ethanol Company (CVEC) facility (Facility) is a fuel ethanol production plant located approximately 1/2 mile northwest of Benson. An adjacent grain elevator, Glacial Plains Cooperative (GPC), is considered a support facility and a part of this stationary source. GPC operates under a separate State Permit, Air Emission Permit No. 15100029-003. This permit does not change the status of the facility.

The primary pollutants emitted and sources of emissions are volatile organic compounds (VOCs) and particulate matter (PM and PM_{10}) from the production of ethanol and VOCs, carbon monoxide (CO) and nitrogen oxides (NO_X) from drying the distillers grain solids. Pollution control equipment at the facility includes baghouses for the control of particulate matter, low NO_X burners to control NO_X and absorbers and oxidizers to control VOCs.

AMENDMENT DESCRIPTION:

This permit action is for a major amendment to the Part 70 permit for CVEC. This action also incorporates an administrative amendment received on August 2, 2012, to clarify permit requirements for GP002 generators subject to 40 CFR pt. 63, subp. ZZZZ (RICE NESHAP). This action also includes two reopenings due to performance test results which update the minimum combustion temperature on the regenerative thermal oxidizer (RTO)(CE010), update the syrup feed rate to less than 58.5 gallons per minute (CE010), and maintain the performance test frequencies established for the process scrubber (CE003) and the fermentation scrubber (CE006) at every 60 months and every 36 months, respectively.

As part of the major amendment, CVEC is proposing to install two high volume grain receiving pits, high volume receiving and transfer equipment (conveyors and elevators), 4 grain storage silos each with the capacity to store 730,000 bushels of grain. The proposed equipment will increase particulate matter emissions ($PM/PM_{10}/PM_{2.5}$). Emissions from the proposed units will be controlled by baghouses.

CVEC is also proposing to install a ninth fermentation tank as part of this major amendment. The ninth fermentation tank will be controlled by a wet scrubber (CE006) and is not expected to cause an increase in VOC emissions. The ninth fermentation tank allows the facility to increase the residence time of the fermentation process and does not increase the capacity of the facility.

Additionally, lower PM and PM_{10} limits are being added to the RTO (CE010) in order to demonstrate compliance with National Ambient Air Quality Standards (NAAQS). These limits were used in modeling. Performance testing demonstrates that this unit is capable of operating below the modeled limits.

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Table A contains limits and other requirements with which your facility must comply. The limits are located in the first column of the table (What To do). The limits can be emission limits or operational limits. This column also contains the actions that you must take and the records you must keep to show that you are complying with the limits. The second column of Table A (Why to do it) lists the regulatory basis for these limits. Appendices included as conditions of your permit are listed in Table A under total facility requirements.

Subject Item: **Total Facility**

What to do	Why to do it
SOURCE-SPECIFIC REQUIREMENTS	hdr
Appendix VI of this permit contains the Facility Description Summary Table. The descriptions in Appendix VI are included for reference.	hdr
The Permittee is authorized to install and operate EU053-EU055 and EU057-EU079, and modify and operate EU056, as defined by the emissions unit information in Appendix V of this permit, within 5 years after permit issuance. The units shall meet all the requirements of this permit.	Minn. R. 7007.0800, subp. 2
Permit Appendices: This permit contains appendices as listed in the permit Table of Contents. The Permittee shall comply with all requirements contained in Appendices II, III and IV. Modeling parameters in Appendix I are included for reference only as described elsewhere in Table A.	Minn. R. 7007.0800, subp. 2
Weekly Inspection and Recordkeeping: During each week of operation the Permittee shall visually inspect all paved surfaces to minimize or eliminate fugitive emissions. The facility shall maintain a record of this inspection that includes the date of the inspection, whether fugitive dust was observed, what corrective actions were taken, when the corrective actions were taken, and whether the corrective actions eliminated the fugitive dust.	Minn. R. 7011.0150; Minn. R. 7007.0800, subp. 2
REQUIREMENTS FOR UNITS SUBJECT TO MINNESOTA STANDARDS OF PERFORMANCE FOR DRY BULK AGRICULTURAL COMMODITY FACILITIES	hdr
The Permittee shall clean up commodities spilled on the driveway and other facility property as required to minimize fugitive emissions; maintain air pollution control equipment in proper operating condition and utilize the air pollution control systems as designed.	Minn. R. 7011.1005, subp. 1
Notwithstanding any provisions in parts 7011.1000 to 7011.1015, no owner or operator of a dry bulk agricultural commodity facility may operate or maintain a facility that creates a public nuisance. If the commissioner determines that operation or maintenance of a commodity facility creates a public nuisance, the commissioner may require the owner or operator to take measures necessary to eliminate the nuisance.	Minn. R. 7011.1010
COMPLIANCE WITH NATIONAL AND MINNESOTA AMBIENT AIR STANDARDS	hdr
The Permittee shall comply with National Primary and Secondary Ambient Air Quality Standards, 40 CFR pt. 50, and the Minnesota Ambient Air Quality Standards, Minn. R. 7009.0010 to 7009.0080. Compliance shall be demonstrated upon written request by the MPCA.	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
DETERMITNING IF A PROJECT/MODIFICATION IS SUBJECT TO NEW SOURCE REVIEW	hdr
All changes made at the stationary source by either Chippewa Valley Ethanol Company or Glacial Plains Cooperative must be evaluated to determine if the change will require permitting under the New Source Review regulations. This facility and Glacial Plains Cooperative constitute a single stationary source under 40 CFR Section 52.21 and 40 CFR Section 70.2. Glacial Plains operates under a separate permit. Air Emissions Permit No. 15100029. All permit amendment requests must assess the potential emissions, and potential emissions increases at both companies into account when modifications are proposed	Title I Condition: 40 CFR Section 52.21 (j): BACT; and to avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
PARAMETERS USED IN PM<10 MICRON MODELING	hdr
The parameters used in PM<10 micron modeling for permit number 15100026-012 are listed in Appendix I of this permit. The parameters describe the operation of the facility at maximum permitted capacity. The purpose of listing the parameters in the appendix is to provide a benchmark for future changes.	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
PARAMETERS USED IN PM<2.5 MICRON MODELING	hdr
The parameters used in PM<2.5 micron modeling for permit number 15100026-012 are listed in Appendix I of this permit. The parameters describe the operation of the facility at maximum permitted capacity. The purpose of listing the parameters in the appendix is to provide a benchmark for future changes.	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080

Modeling Triggers: For changes that do not require a permit amendment and affect any PM<2.5 micron modeled parameter or emission rate documented in Appendix I, or are an addition to the information documented in Appendix I, a Remodeling Submittal requirement is not triggered at the time of the change. The Permittee shall keep updated records on site of all parameters and emission rates. The Permittee shall submit any changes to parameters and emission rates with the next required Remodeling Submittal. For changes that require a minor, moderate, or major permit amendment and affect any PM<2.5 micron modeled parameter or emission rate documented in Appendix I, or are an addition to the information documented in Appendix I, a Remodeling Submittal requirement is triggered. The Permittee shall include previously made changes to parameters and emission rates that did not trigger a Remodeling Submittal.	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
PM<2.5 micron Remodeling Submittal: The Permittee must submit to the MPCA for approval changes meeting the above criteria and must wait for a written approval before making such changes (see introduction for Table B of this permit for MPCA mailing information). For minor amendments, written approval of the modeling may be given before permit issuance; however, this approval applies only to the modeling and not to any other changes. The information submitted must include, for stack and vent sources, source emission rate, location, height, diameters, exit velocity, exit temperature, discharge direction, use of rain caps or rain hats, and, if applicable, locations and dimensions of nearby buildings. For non-stack/vent sources, this includes the source emission rate, location, size and shape, release height, and, if applicable, any emission rate scalars, and the initial lateral dimensions and initial vertical dimensions and adjacent building heights.	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
PM< 2.5 micron Remodeling Submittal, continued: The plume dispersion characteristics due to the revisions of the information must be equivalent to or better than the dispersion characteristics modeled on 4/15/2013. The Permittee shall demonstrate this equivalency in the proposal. If the information does not demonstrate equivalent or better dispersion characteristics, or if a conclusion cannot readily be made about the dispersion, the Permittee must submit full remodeling.	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080, continued
OPERATIONAL REQUIREMENTS	hdr
Air Pollution Control Equipment: Operate all pollution control equipment whenever the corresponding process equipment and emission units are operated, unless otherwise noted in Table A.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 16(J)
Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment. At a minimum, the O & M plan shall identify all air pollution control equipment and control practices and shall include a preventative maintenance program for the equipment and practices, a description of (the minimum but not necessarily the only) corrective actions to be taken to restore the equipment and practices to proper operation to meet applicable permit conditions, a description of the employee training program for proper operation and maintenance of the control equipment and practices, and the records kept to demonstrate plan implementation.	Minn. R. 7007.0800, subp. 14 and Minn. R. 7007.0800, subp. 16(J)
Operation Changes: In any shutdown, breakdown, or deviation the Permittee shall immediately take all practical steps to modify operations to reduce the emission of any regulated air pollutant. The Commissioner may require feasible and practical modifications in the operation to reduce emissions of air pollutants. No emissions units that have an unreasonable shutdown or breakdown frequency of process or control equipment shall be permitted to operate.	Minn. R. 7019.1000, subp. 4
Fugitive Emissions: Do not cause or permit the handling, use, transporting, or storage of any material in a manner which may allow avoidable amounts of particulate matter to become airborne. Comply with all other requirements listed in Minn. R. 7011.0150.	Minn. R. 7011.0150
Noise: The Permittee shall comply with the noise standards set forth in Minn. R. 7030.0010 to 7030.0080 at all times during the operation of any emission units. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. R. 7030.0010 - 7030.0080
Circumvention: Do not install or use a device or means that conceals or dilutes emissions, which would otherwise violate a federal or state air pollution control rule, without reducing the total amount of pollutant emitted.	Minn. R. 7011.0020
Inspections: The Permittee shall comply with the inspection procedures and requirements as found in Minn. R. 7007.0800, subp. 9(A).	Minn. R. 7007.0800, subp. 9(A)
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
PERFORMANCE TESTING	hdr

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Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in Tables A and B.	Minn. R. ch. 7017
Performance Test Notifications and Submittals: Performance Tests are due as outlined in Tables A and B of the permit. See Table B for additional testing requirements. Performance Test Notification (written): due 30 days before each Performance Test Performance Test Plan: due 30 days before each Performance Test Performance Test Pre-test Meeting: due 7 days before each Performance Test Performance Test Report: due 45 days after each Performance Test Performance Test Report - Microfiche Copy: due 105 days after each Performance Test The Notification, Test Plan, and Test Report may be submitted in alternative format as allowed by Minn. R. 7017.2018.	Minn. R. 7017.2030, subp. 1-4; Minn. R 7017.2018 and Minn. R. 7017.2035, subp. 1-2
Limits set as a result of a performance test (conducted before or after permit issuance) apply until superseded as stated in the MPCA's Notice of Compliance letter granting preliminary approval. Preliminary approval is based on formal review of a subsequent performance test on the same unit as specified by Minn. R. 7017.2025, subp. 3. The limit is final upon issuance of a permit amendment incorporating the change.	Minn. R. 7017.2025, subp. 3
MONITORING REQUIREMENTS	hdr
Monitoring Equipment Calibration: Annually calibrate all required monitoring equipment (any requirements applying to continuous emission monitors are listed separately in this permit).	Minn. R. 7007.0800, subp. 4(D)
Operation of Monitoring Equipment: Unless otherwise noted in Tables A, and/or B, monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown, or during checks of the monitoring systems, such as calibration checks and zero and span adjustments. If monitoring records are required, they should reflect any such periods of process shutdown or checks of the monitoring system.	Minn. R. 7007.0800, subp. 4(D)
RECORDKEEPING	hdr
If the Permittee determines that no permit amendment or notification is required prior to making a change, the Permittee must retain records of all calculations required under Minn. R. 7007.1200. For expiring permits, these records shall be kept for a period of five years from the date the change was made or until permit reissuance, whichever is longer. The records shall be kept at the stationary source for the current calendar year of operation and may be kept at the stationary source or office of the stationary source for all other years. The records may be maintained in either electronic or paper format.	Minn. R. 7007.1200, subp. 4
Record keeping: Maintain records describing any insignificant modifications (as required by Minn. R. 7007.1250, subp. 3) or changes contravening permit terms (as required by Minn. R. 7007.1350, subp. 2), including records of the emissions resulting from those changes.	Minn. R. 7007.0800, subp. 5(B)
Record keeping: Retain all records at the stationary source for a period of five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A).	Minn. R. 7007.0800, subp. 5(C)
REPORTING/SUBMITTALS	hdr
Shutdown Notifications: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. If the owner or operator does not have advance knowledge of the shutdown, notification shall be made to the Commissioner as soon as possible after the shutdown. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 3. At the time of notification, the owner or operator shall inform the Commissioner of the cause of the shutdown and the estimated duration. The owner or operator shall notify the Commissioner when the shutdown is over.	Minn. R. 7019.1000, subp. 3

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Breakdown Notifications: Notify the Commissioner within 24 hours of a breakdown of more than one hour duration of any control equipment or process equipment if the breakdown causes any increase in the emissions of any regulated air pollutant. The 24-hour time period starts when the breakdown was discovered or reasonably should have been discovered by the owner or operator. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 2. At the time of notification or as soon as possible thereafter, the owner or operator shall inform the Commissioner of the cause of the breakdown and the estimated duration. The owner or operator shall notify the Commissioner when the breakdown is over.	Minn. R. 7019.1000, subp. 2
Initial Notification of Deviations Endangering Human Health or the Environment: As soon as possible after discovery, notify orally or by facsimile the Commissioner or the state duty officer of any deviation from permit conditions which could endanger human health or the environment.	Minn. R. 7019.1000, subp. 1
Notification of Deviations Endangering Human Health or the Environment Report: Within 2 working days of discovery, notify the Commissioner in writing of any deviation from permit conditions which could endanger human health or the environment. Include the following information in this written description: 1. the cause of the deviation; 2. the exact dates of the period of the deviation, if the deviation has been corrected; 3. whether or not the deviation has been corrected; 4. the anticipated time by which the deviation is expected to be corrected, if not yet corrected; and 5. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation.	Minn. R. 7019.1000, subp. 1
Application for Permit Amendment: If a permit amendment is needed, submit an application in accordance with the requirements of Minn. R. 7007.1150 through Minn. R. 7007.1500. Submittal dates vary, depending on the type of amendment needed.	Minn. R. 7007.1150 through Minn. R. 7007.1500
Emission Inventory Report: due on or before April 1 of each calendar year following permit issuance, to be submitted on a form approved by the Commissioner.	Minn. R. 7019.3000 through Minn. R. 7019.3010
Emission Fees: due 60 days after receipt of an MPCA bill.	Minn. R. 7002.0005 through Minn. R. 7002.0095
Extension Requests: The Permittee may apply for an Administrative Amendment to extend a deadline in a permit by no more than 120 days, provided the proposed deadline extension meets the requirements of Minn. R. 7007.1400, subp. 1(H). Performance testing deadlines from the General Provisions of 40 CFR pt. 60 and pt. 63 are examples of deadlines for which the MPCA does not have authority to grant extensions and therefore do not meet the requirements of Minn. R. 7007.1400, subp. 1(H).	Minn. R. 7007.1400, subp. 1(H)

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Subject Item: **GP 001 NOx Emissions from Fuel Combustion**

Associated Items: CE 010 Regenerative Thermal Oxidizer

CE 015 Multiple Cyclone w/o Fly Ash Reinjection - Most Multiclones

CE 016 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

EU 014 Dryer

EU 016 Boiler #1

EU 031 Boiler #2

EU 039 Dryer #2

EU 040 Boiler # 3

EU 047 Regenerative Thermal Oxidizer (SV024)

MR 001 NOx CEMS

SV 005 Boiler 1

SV 013 Boiler 2

SV 015 Boiler # 3

SV 024 Regenerative Thermal Oxidizer

What to do	Why to do it
EMISSION LIMITS	hdr
Nitrogen Oxides: less than or equal to 0.04 lbs/million Btu heat input . This limit applies individually to EU 014, EU 016, EU 031, EU 039 and EU 040 when natural gas is combusted.	Title I Condition: 40 CFR Section 52.21(j) BACT and Minn. R. 7007.3000
Nitrogen Oxides: less than or equal to 0.08 lbs/million Btu heat input . This limit applies individually to EU 014, EU 016, EU 031, EU 039, and EU040 when propane is combusted.	Title I Condition: 40 CFR Section 52.21(j) BACT and Minn. R. 7007.3000
Nitrogen Oxides: less than or equal to 71.4 tons/year using 52-week Rolling Sum . This limit applies collectively to EU014, EU016, EU031, EU039 and EU040. This limit applies to EU040 when combusting natural gas and propane only. When producer gas from biomass gasification is combusted, only the NOx contribution from natural gas and propane shall be included in the GP001 NOx calculations.	Title I Condition: 40 CFR Section 52.21(j) BACT and Minn. R. 7007.3000
Alternative to the above requirements: NOx emission factors for each unit (EU 014, EU 016, EU 031, EU039, EU040 and EU 047) will be set based on the initial performance test. If the individual emission factors established by the initial performance test are lower than 0.04 lb/MMBtu for each emission unit in the group, then the 0.04 lbs of NOx per MMBtu limit shall apply to each unit in GP001 and the 71.4 tons/year NOx limit shall not apply. This condition applies to EU 040 when combusting natural gas and propane only. When producer gas from biomass gasification is combusted, only the NOx contribution from natural gas and propane shall be included in the GP 001 NOx calculations.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
OPERATING REQUIREMENTS	hdr
Fuel Usage: less than or equal to 975 hours/year using 12-month Rolling Sum for propane combustion. This limit applies individually to EU016, EU031, and EU040. This limit applies collectively to EU014 and EU039.	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
Fuel Burned: Natural gas and propane only, except for EU 040, which may combust natural gas, propane, and biomass producer gas.	Minn. Stat. Section 116.07, subp. 4a; Minn. R. 7007.0800, subp. 2
RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping - Fuel Usage: Each day, record the following: a. the gallons of propane combusted; b. the cubic feet of natural gas combusted; c. hours of operation for EU014, EU016, EU031, EU039 and EU040 when propane was combusted.	Title I Condition: 40 CFR Section 52.21(j) BACT and Minn. R. 7007.3000
Each week, the Permittee shall calculate the NOx emissions from the previous week and calculate the 52 week rolling sum of NOx emissions using the equation contained in Appendix III to this permit.	Title I Condition: 40 CFR Section 52.21(j) BACT and Minn. R. 7007.3000

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PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due before end of each 36 months starting 07/26/2005 to test for NOx emission factor for EU016 while combusting natural gas.	Title I Condition: 40 CFR Section 52.21(j) BACT and Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 36 months starting 07/26/2005 to test for NOx emission factor for EU031 while combusting natural gas.	Title I Condition: 40 CFR Section 52.21(j) BACT and Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each calendar 36 months starting 07/26/2011 to test for NOx emission factor for EU014, EU039 and EU047 in operation while combusting natural gas.	Title I Condition: 40 CFR Section 52.21(j) BACT and Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1

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Subject Item: **GP 002 Peak Shaving Generators**

Associated Items: CE 018 Catalytic Converter

CE 019 Catalytic Converter

EU 020 Generator #1 CI 1996 2220 Hp

EU 021 Generator #2 CI 1996 2220 Hp

SV 006 Generator 1

SV 007 Generator 1

SV 008 Generator 2

SV 009 Generator 2

What to do	Why to do it
NESHAP APPLICABILITY	hdr
The Permittee shall comply with the applicable emission limitations, operating limitations, and other requirements from 40 CFR pt. 63, subp. ZZZZ, including those listed below, no later than May 3, 2013.	40 CFR Section 63.6595(a)(1); Minn. R. 7011.8150
EMISSION LIMITS	hdr
Opacity: less than or equal to 20 percent opacity at each stack, once operating temperatures have been attained.	Minn. R. 7011.2300, subp. 1
Sulfur Dioxide: less than or equal to 0.5 lbs/million Btu heat input for each generator	Minn. R. 7011.2300, subp. 2
Carbon Monoxide: less than or equal to 23 parts per million , volumetric dry at 15 percent oxygen; or reduce CO emissions by 70 percent or more. Compliance with the numerical emission limitations established in 40 CFR pt. 63, subp. ZZZZ is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in 40 CFR Section 63.6620 and 40 CFR pt. 63, subp. ZZZZ, Table 4.	40 CFR Sections 63.6603(a) and 63.6605(a); 40 CFR pt. 63, subp. ZZZZ, Tables 2d and 4; Minn. R. 7011.8150
EMISSION AND OPERATIONAL REQUIREMENTS	hdr
Operating Hours: less than or equal to 500 hours/year . This limit applies to EU020 and EU021 individually.	Minn. R. 7007.0800, subp. 2
Fuel Burned: Diesel and biodiesel fuel oil only.	Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
The Permittee shall use only diesel fuel that meets the requirements in 40 CFR Section 80.510(b) for nonroad diesel fuel.	40 CFR Section 63.6604(a); Minn. R. 7011.8150
Pressure Drop: less than or equal to 2 inches of water column at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst that was measured during the initial performance test.	40 CFR Sections 63.6603(a) and 63.6605(a); 40 CFR pt. 63, subp. ZZZZ, Table 2b; Minn. R. 7011.8150
Temperature: greater than or equal to 750 degrees F and less than or equal to 1250 degrees F	40 CFR Section 63.6603(a); 40 CFR pt. 63, subp. ZZZZ, Table 2b; Minn. R. 7011.8150
The Permittee shall be in compliance with the emission limitations and operating limitations in 40 CFR pt. 63, subp. ZZZZ that apply at all times.	40 CFR Section 63.6605(a); Minn. R. 7011.8150
At all times, the Permittee shall operate and maintain EU020 and EU021 and CE018 and CE019, including monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.	40 CFR Section 63.6605(b); Minn. R. 7011.8150
The Permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emissions standards applicable to all times other than startup in Table 2d of 40 CFR pt. 63, subp. ZZZZ apply.	40 CFR Section 63.6625(h); Minn. R. 7011.8150
The Permittee shall demonstrate initial compliance with each emission and operating limitation that applies according to 40 CFR pt. 63, subp. ZZZZ, Table 5.	40 CFR Section 63.6630(a); Minn. R. 7011.8150

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Compliance Demonstration: The Permittee shall demonstrate initial compliance with the requirements of 40 CFR pt. 63, subp. ZZZZ by: 1. Reducing the average CO concentration to less than or equal to 23 parts per million, volumetric dry, at 15 percent oxygen, or reducing the average emissions of CO by 70 percent or more, as determined from the initial performance test; and 2. Installing a CPMS to continuously monitor catalyst inlet temperature according to the requirements of 40 CFR Section 63.6625(b); and 3. Recording the catalyst pressure drop and catalyst inlet temperature during the initial performance test.	40 CFR Section 63.6630(a); 40 CFR pt. 63, subp. ZZZZ, Table 5; Minn. R. 7011.8150
The Permittee shall demonstrate continuous compliance with each emission limitation and operating limitation in Table 2d of 40 CFR pt. 63, subp. ZZZZ that apply according to methods specified in Table 6 of 40 CFR pt. 63, subp. ZZZZ.	40 CFR Section 63.6640(a); Minn. R. 7011.8150
The Permittee shall demonstrate continuous compliance with the requirements of 40 CFR pt. 63, subp. ZZZZ by: 1. Conducting performance tests every 8,760 hours or 3 years, whichever comes first, for CO, to demonstrate that the required 70 percent reduction is achieved or that your emissions remain at or below the 23 parts per million, dry volumetric concentration limit. 2. Collecting the catalyst inlet temperature according to 40 CFR Section 63.6625(b). 3. Reducing the data to 4-hour rolling averages. 4. Maintaining the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test. 5. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.	40 CFR Section 63.6640(a); 40 CFR pt. 63, subp. ZZZZ, Table 6; Minn. R. 7011.8150
The Permittee shall comply with the General Provisions in 40 CFR Sections 63.1 through 63.15, as applicable.	40 CFR Section 63.6665; 40 CFR pt. 63, subp. ZZZZ, Table 8; 40 CFR Sections 63.1 - 63.15; Minn. R. 7011.8150
PERFORMANCE TESTING REQUIREMENTS	hdr
Initial Performance Test: due 180 days after 05/13/2013 for EU 020. Testing shall be conducted to measure emissions of carbon monoxide or to determine the percent reduction in carbon monoxide emissions according to the requirements of Table 4 in 40 CFR pt. 63, subp. ZZZZ, and 40 CFR Section 63.6620. Initial compliance shall be demonstrated according to 40 CFR pt. 63, subp. ZZZZ, Table 5 item 1. During this initial performance test, the Permittee shall measure the catalyst pressure drop to establish the catalyst pressure drop operating limitation according to 40 CFR Section 63.6630(b) and 40 CFR pt. 63, subp. ZZZZ, Table 2b.	40 CFR Sections 63.6610(a), 63.6620, and 63.6630(b); Minn. R. 7011.8150; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after 05/13/2013 for EU 021. Testing shall be conducted to measure emissions of carbon monoxide or to determine the percent reduction in carbon monoxide emissions according to the requirements of Table 4 in 40 CFR pt. 63, subp. ZZZZ, and 40 CFR Section 63.6620. Initial compliance shall be demonstrated according to 40 CFR pt. 63, subp. ZZZZ, Table 5 item 1. During this initial performance test, the Permittee shall measure the catalyst pressure drop to establish the catalyst pressure drop operating limitation according to 40 CFR Section 63.6630(b) and 40 CFR pt. 63, subp. ZZZZ, Table 2b.	40 CFR Sections 63.6610(a), 63.6620, and 63.6630(b); Minn. R. 7011.8150; Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 36 months following Initial Performance Test or 8,760 hours of operation of EU020, whichever comes first. The first subsequent performance test is due 36 months or 8,760 hours of operation (whichever comes first) after the initial performance test. Subsequent testing shall be conducted to measure emissions of carbon monoxide or to determine the percent reduction of carbon monoxide emissions according to the requirements of 40 CFR pt. 63, subp. ZZZZ, Tables 3 and 4, and 40 CFR Section 63.6620.	40 CFR Section 63.6615; 40 CFR pt. 63, subp. ZZZZ, Table 3; 40 CFR Section 63.6620; Minn. R. 7011.8150
Performance Test: due before end of each 36 months following Initial Performance Test or 8,760 hours of operation of EU021, whichever comes first. The first subsequent performance test is due 36 months or 8,760 hours of operation (whichever comes first) after the initial performance test. Subsequent testing shall be conducted to measure emissions of carbon monoxide or to determine the percent reduction of carbon monoxide emissions according to the requirements of 40 CFR pt. 63, subp. ZZZZ, Tables 3 and 4, and 40 CFR Section 63.6620.	40 CFR Section 63.6615; 40 CFR pt. 63, subp. ZZZZ, Table 3, 40 CFR Section 63.6620; Minn. R. 7011.8150

The Permittee shall conduct each performance test in Tables 3 and 4 of 40 CFR pt. 63, subp. ZZZZ that applies. Each performance test shall be conducted according to the requirements that are specified in Table 4 of 40 CFR pt. 63, subp. ZZZZ. The Permittee shall conduct three separate test runs for each performance test required in 40 CFR Section 63.6620, as specified in 40 CFR Section 63.7(e)(3). Each test run shall last at least 1 hour.	40 CFR Section 63.6612(a); 40 CFR Section 63.6620(a), (b) and (d); 40 CFR pt. 63, subp. ZZZZ, Tables 3 and 4; Minn. R. 7011.8150
The Permittee shall determine compliance with the percent reduction requirement according to the procedures in 40 CFR Section 63.6620(e)(1) as described in Appendix V.	40 CFR Section 63.6620(e); Minn. R. 7011.8150
During the initial performance test, the Permittee shall establish each operating limitation in Table 2b of 40 CFR pt. 63, subp. ZZZZ that applies.	40 CFR Section 63.6630(b); Minn. R. 7011.8150
Performance Test - Change of Catalyst: If the Permittee changes a catalyst (CE 018 or CE019), the Permittee shall reestablish the pressure drop operating value across the catalyst and conduct a performance test to demonstrate that the required CO reduction requirement is being met for the new catalyst.	40 CFR Section 63.6640(b); Minn. R. 7011.8150
MONITORING REQUIREMENTS	hdr
The Permittee shall install a continuous parameter monitoring system (CPMS). The Permittee shall install, operate, and maintain each CPMS according to the following requirements: 1. The Permittee shall prepare a site-specific monitoring plan that addresses the monitoring system design, data collection, and the quality assurance and quality control elements outline in paragraphs (b)(1)(i) through (v) of 40 CFR Section 63.6625(b) and in 40 CFR Section 63.8(d). 2. The Permittee shall install, operate, and maintain each CPMS in continuous operation according to the procedures in the site-specific monitoring plan. 3. The CPMS shall collect data at least once every 15 minutes. 4. For a CPMS for measuring temperature range, the temperature sensor shall have a minimum tolerance of 2.8 degrees Celsius or 1 percent of the measurement range, whichever is larger. (continued below)	40 CFR Section 63.6625(b); 40 CFR pt. 63, subp. ZZZZ, Table 5; Minn. R. 7011.8150
(continued from above) 5. The Permittee shall conduct the CPMS equipment performance evaluation, system accuracy audits, or other audit procedures specified in the site-specific monitoring plan at least annually. 6. The Permittee shall conduct a performance evaluation of each CPMS in accordance with the sit-specific monitoring plan.	40 CFR Section 63.6625(b); 40 CFR pt. 63, subp. ZZZZ, Table 5; Minn. R. 7011.8150
The Permittee shall monitor and collect data according to the requirements of 40 CFR Section 63.6635. Except for monitor malfunctions, associated repairs, and required quality assurance or control activities, the Permittee shall monitor continuously at all times that the stationary RICE is operating. The Permittee may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. The Permittee shall use all the valid data collected during all other periods.	40 CFR Section 63.6635; Minn. R. 7011.8150
Upon promulgation of a performance specification for the CPMS, the Permittee shall comply with the quality control provisions in 40 CFR Section 63.8(d) and shall conduct the required performance evaluation in 40 CFR Section 63.8(e), unless an alternative monitoring method has been approved under the provisions of 40 CFR Section 63.8(f).	40 CFR Section 63.8(a)(2)
RECORDINGKEEPING REQUIREMENTS	hdr
Recordkeeping - Hours of Operation: The Permittee shall maintain records of the hours of operation of each generator and keep them on-site.	Minn. R. 7007.0800, subps. 4 & 5
Fuel Supplier Certification: The Permittee shall obtain and maintain a fuel supplier certification for each shipment of No. 2 fuel oil, certifying that the sulfur content does not exceed 0.0015% by weight.	Minn. R. 7007.0800, subps. 4 & 5

The Permittee shall maintain the following records: 1. A copy of each notification and report submitted to comply with 40 CFR pt. 63, subp. ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status submitted, according to the requirement in 40 CFR Section 63.10(b)(2)(xiv). 2. Records of the occurrence and duration of each malfunction of operation or the air pollution control and monitoring equipment. 3. Records of performance tests and performance evaluations as required in 40 CFR Section 63.10(b)(2)(viii). 4. Records of all required maintenance performed on the air pollution control and monitoring equipment. 5. Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR Section 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.	40 CFR Section 63.6655(a); Minn. R. 7011.8150
The Permittee shall maintain the following records: 1. Records described in 40 CFR Section 63.10(b)(2)(vi) - (xi). 2. Previous (i.e. superseded) versions of the performance evaluation plan as required in 40 CFR Section 63.8(d)(3). 3. Requests for alternatives to the relative accuracy test for Continuous Emissions Monitoring System (CEMS) or Continuous Parameter Monitoring System (CPMS) as required in 40 CFR Section 63.8(f)(6)(i), if applicable.	40 CFR Section 63.6655(b); Minn. R. 7011.8150
The Permittee shall maintain, at a minimum, the following information: 1. Each period during which a Continuous Monitoring System (CMS) is malfunctioning or inoperative, including out-of-control periods; 2. All required measurements needed to demonstrate compliance with a relevant standard; 3. All results of performance tests, CMS performance evaluations, and opacity and visible emission observations; 4. All measurements as may be necessary to determine the conditions of performance tests and performance evaluations; 5. All CMS calibration checks; 6. All adjustments and maintenance performed on CMS; 7. Any information demonstrating whether a source is meeting the requirements for a waiver of recordkeeping or reporting requirements under 40 CFR pt. 63, subp. A if the Permittee has been granted a waiver under 40 CFR Section 63.10(f); (continued below)	40 CFR Section 63.10(b)(2); Minn. R. 7019.0100, subp. 2(B)
(continued from above) 8. All emission levels relative to the criterion for obtaining permission to use an alternative to the relative accuracy test, if the source has been granted such permission under 40 CFR Section 63.8(f)(6); and 9. All documentation supporting initial notifications and notifications of compliance status under 40 CFR Section 63.9.	40 CFR Section 63.10(b)(2); Minn. R. 7019.0100, subp. 2(B)
The Permittee shall keep the records required in Table 6 of 40 CFR pt. 63, subp. ZZZZ, to show continuous compliance with each emission or operating limitation that applies.	40 CFR Section 63.6655(d); Minn. R. 7011.8150
The Permittee shall maintain all records in a form suitable and readily available for expeditious review according to 40 CFR Section 63.10.	40 CFR Section 63.6660; 40 CFR Section 63.10(b)(1); Minn. R. 7011.8150; Minn. R. 7019.0100, subp. 2(B)
REPORTING AND NOTIFICATION REQUIREMENTS	hdr
Performance Test Notifications and Submittals: Notification of Intent to Conduct Performance Test (written): due 60 days before each Performance Test as required by 40 CFR Sections 63.6645(e) and 63.7(b)(1) Performance Test Plan: due 30 days before each Performance Test (must also meet requirements of 40 CFR Section 63.7(c)) Performance Test Pre-Test Meeting: due 7 day before each Performance Test Performance Test Report: due 45 days after each Performance Test Performance Test Report - Microfiche Copy or CD: due 105 day after each Performance Test. The Notification, Test Plan, and Test Report may be submitted in alternative format as allowed by Minn. R. 7017.2018.	40 CFR Sections 63.7(b)(1) and 63.6645(e); Minn. R. 7011.8150; Minn. R. 7017.2030, subp. 1-4; Minn. R. 7017.2018 ; Minn. R. 7017.2035, subps. 1 & 2
The Permittee shall submit all of the notifications in 40 CFR Section 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b)-(e), and (g) and (h) that apply by the dates specified.	40 CFR Section 63.6645(a); Minn. R. 7011.8150
The Permittee shall submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in 40 CFR Section 63.6645.	40 CFR Section 63.6630(c); Minn. R. 7011.8150

The Permittee shall submit each report in Table 7 of 40 CFR pt. 63, subp. ZZZZ, as applicable.	40 CFR Section 63.6650(a); 40 CFR pt. 63 subp. ZZZZ, Table 7; Minn. R. 7011.8150
The Semiannual Compliance report shall contain the information in paragraphs (c)(1) through (c)(6) of 40 CFR Section 63.6650.	40 CFR Section 63.6650(c); Minn. R. 7011.8150
For each deviation from an emission or operating limitation that occurs, the Compliance report shall contain the information in paragraphs (c)(1) - (c)(4) and (e)(1) - (e)(12) of 40 CFR Section 63.6650.	40 CFR Section 63.6650(e); Minn. R. 7011.8150
The Permittee shall report all deviations as defined in 40 CFR pt. 63, subp. ZZZZ in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A).	40 CFR Section 63.6650(f); Minn. R. 7011.8150
The Permittee shall report each instance in which the stationary RICE did not meet each applicable emission limitation or operating limitation. These instances are deviations from the emission and operating limitations. These deviations shall be reported according to the requirements in 40 CFR Section 63.6650.	40 CFR Section 63.6640(b); Minn. R. 7011.8150
The Permittee shall report each instance when the applicable requirements in Table 8 of 40 CFR pt. 63, subp. ZZZZ were not met.	40 CFR Section 63.6640(e); 40 CFR pt. 63, subp. ZZZZ, Table 8; Minn. R. 7011.8150
Compliance Report Content - No Deviations: The report shall contain the following information: 1. Company name and address; 2. Responsible official's statement certifying report content accuracy with official's name, title, and signature; 3. Report date and beginning and ending dates of reporting period; 4. If there was a malfunction during the reporting period, 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 an affected source to minimize emissions in accordance with 40 CFR Section 63.6605(b), including actions taken to correct a malfunction; (continued below)	40 CFR Sections 63.6650(c)(1) through (6); Minn. R. 7011.8150
(continued from above) 5. A statement that no deviations occurred, if there were no deviations during the reporting period; and 6. A statement that there were no periods that the CMS was out-of-control, if there were no out-of-control periods during the reporting period.	40 CFR Sections 63.6650(c)(1) through (6); Minn. R. 7011.8150 (continued)
Compliance Report Content - Deviations: For each deviation from an emission or operating limitation, the Permittee shall include information from Section 63.6650(c)(1) through (4) and the following: 1. Date and start/stop time of each malfunction; 2. Date, time, and duration that each CMS was inoperative except for zero (low level) and high level checks; 3. Date, time, and duration that each CMS was out-of-control, including information in 40 CFR Section 63.8(c)(8); 4. Date and time each deviation started and stopped, and whether each deviation occurred during a malfunction or other during another period; 5. A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period; (continued below)	40 CFR Sections 63.6650(e)(1) though (5); Minn. R. 7011.8150
(continued from above) 6. A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes; 7. A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the stationary RICE at which the CMS downtime occurred during that reporting period; 8. An identification of each parameter and pollutant that was monitored at the stationary RICE; 9. A brief description of the stationary RICE; 10. A brief description of the CMS; 11. The date of the latest CMS certification or audit; and 12. A description of any changes in CMS, processes, or controls since the last reporting period.	40 CFR Sections 63.6650(e)(6) though (12); Minn. R. 7011.8150

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **GP 006 Tanks Subject to NSPS Subp. Kb**

Associated Items: TK 003 Ethanol

TK 004 Gasoline

TK 005 Ethanol

TK 008 Ind. Ethanol

TK 009 Ind. Ethanol

TK 014 Ethanol

What to do	Why to do it
Recordkeeping: Maintain records showing the dimensions of each tank, and analyses showing each tank's capacity.	40 CFR Section 60.116b(b); Minn. R. 7011.1520 (C)
POLLUTION CONTROL REQUIREMENTS	hdr
The storage vessel shall be equipped with a fixed roof in combination with an internal floating roof meeting the requirements of 40 CFR Section 60.112b(a)(1).	40 CFR Section 60.112b(a); Minn. R. 7011.1520(C)
The storage vessel shall be equipped with the following closure devices between the wall of the storage vessel and the edge of the internal floating roof consisting of two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor mounted, but both must be continuous.	40 CFR Section 60.112b(a)(1)(ii)(B); Minn. R. 7011.1520(C)
INSPECTIONS	hdr
Visually inspect the internal floating roof, the primary seal, and the secondary seal, prior to filling the storage vessel with Volatile Organic Liquid (VOL). If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric, or defects in the internal floating roof, or both, the owner or operator shall repair the items before filling the storage vessel.	40 CFR Section 60.113b(a)(1); Minn. R. 7011.1520(C)
Visually inspect the internal floating roof, the primary seal, and the secondary seal through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill as required by this paragraph.	40 CFR Section 60.113b(a)(3)(ii); Minn. R. 7011.1520(C)
Visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed, as required by this paragraph. In no event shall inspections conducted in accordance with this provision occur at intervals greater than 10 years.	40 CFR Section 60.113b(a)(3)(i); Minn. R. 7011.1520(C)
NOTIFICATIONS	hdr
Notification: If an inspection is required (under 40 CFR Section 60.113b(a)(1) or 40 CFR Section 60.113b(a)(3)(i)), notify the Commissioner in writing at least 30 days prior to the filling or refilling of the storage vessel, to afford the Commissioner the opportunity to have an observer present. If the inspection is not planned and the owner or operator could not have known about the inspection 30 days in advance of the refilling the tank, the owner or operator shall notify the Commissioner at least 7 days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Commissioner at least 7 days prior to refilling.	40 CFR Section 60.113b(a)(5); Minn. R. 7011.1520(C)
Notification: Furnish the Commissioner with a report describing the internal floating roof and certifying that it meets the specifications of 40 CFR Section 60.112b(a)(1) and 40 CFR Section 60.113b(a)(1). The report shall be an attachment to the notification of actual date of initial startup required by 40 CFR Section 60.7(a)(3).	40 CFR Section 60.115b(a)(1); Minn. R. 7011.1520(C)
RECORDKEEPING	hdr
Recordkeeping: Maintain records showing the volatile organic liquid (VOL) stored, the period of storage, and the maximum true vapor pressure of the VOL during the respective storage period, calculated as described in 40 CFR Section 60.116b(e).	40 CFR Section 60.116b(c); Minn. R. 7011.1520(C)
Keep a record of each inspection performed as required by 40 CFR Section 60.113b(a)(1), (a)(2), (a)(3), and (a)(4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).	40 CFR Section 60.115b(a)(2); Minn. R. 7011.1520(C)
REPORTS	hdr

After each inspection required under 40 CFR Section 60.113b(a)(3) that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in 40 CFR Section 60.113b(a)(3)(ii), a report shall be furnished to the Commissioner within 30 days of the inspection. The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR Section 60.112b(a)(1) or 40 CFR Section 60.113b(a)(3)(ii), and list each repair made.	40 CFR Section 60.115b(a)(4); Minn. R. 7011.1520(C)
Recordkeeping: maintain records of the volatile organic liquid (VOL) stored, the period of storage, and the maximum true vapor pressure of the VOL during the respective storage period, calculated as described in 40 CFR Section 60.116b(e).	40 CFR Section 60.116b(c); Minn. R. 7011.1520(C)

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **GP 007 DDGS Dryers**

Associated Items: CE 010 Regenerative Thermal Oxidizer

EU 014 Dryer

EU 039 Dryer #2

EU 047 Regenerative Thermal Oxidizer (SV024)

SV 024 Regenerative Thermal Oxidizer

What to do	Why to do it
OPERATING REQUIREMENTS (see SV024 and CE010 for additional requirements)	hdr
Fuel Burned: Natural gas and propane only.	Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Process Throughput: less than or equal to 58.5 gallons/minute using 24-hour Block Average for syrup feed rate, or less than or equal to the maximum feed rate based on the values recorded during the most recent MPCA-approved performance test, using 24-hour Block Average of syrup, where compliance was demonstrated. The new limit shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The limit is final upon issuance of a permit amendment incorporating the change.	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000
Thermal Oxidizer (CE 010) Burnouts and Other Maintenance Activities: During thermal oxidizer malfunctions and any other maintenance for which the manufacturer recommends dryer emissions bypass the thermal oxidizer, the dryer shall be shutdown. Wet DDGS shall be stored and handled to minimize VOC emissions and odors during these maintenance activities. The Permittee shall maintain a record of such maintenance activities in the O & M plan for CE 010.	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 14 and 15(j)
Thermal Oxidizer Breakdown: In the event of a breakdown of the thermal oxidizer, the Permittee shall stop feed into the dryer as soon as the breakdown is discovered. Dryer operation may continue as long as necessary to empty the dryer. The Permittee shall also submit the notification required by Minn. R. 7019.1000, subp. 2, if required.	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
POLLUTION CONTROL REQUIREMENTS	hdr
Vent all emissions from EU014 and EU039 to the regenerative thermal oxidizer (CE010). See CE010 for operation and maintenance requirements for the regenerative thermal oxidizer. See SV024 for emission limits and testing requirements.	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
RECORDKEEPING REQUIREMENTS	hdr
The Permittee shall measure and record syrup feed rate once per hour, and compute and record the 24-hour block average feed rates.	Title I Condition: 40 CFR Section 52.21(j) BACT and Minn. R. 7007.3000
DRYER BYPASS	hdr
Wetcake storage limitation: When wet cake by-product is produced, it will be stored for no longer than 72 hours on-site unless the outside temperature is less than 55 degrees (daily maximum). In all cases, the wet cake will be removed from the facility property as soon as possible. Maintain daily records of wetcake storage, including quantity of wetcake stored, ambient temperature, and duration of wetcake storage.	Minn. R. 7007.0800, subp. 2

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **GP 008 Gasification Emissions Increase**

Associated Items:

CE 011 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 012 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 013 Fabric Filter - Medium Temperature i.e., 180 F<T<250 F

CE 014 Flaring

CE 015 Multiple Cyclone w/o Fly Ash Reinjection - Most Multiclones

CE 016 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 017 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

EU 040 Boiler # 3

EU 048 Wood Receiving (SV026)

EU 049 Wood Feed (SV027)

EU 050 Gasifier

EU 051 Ash Handling (SV028)

EU 052 Media Product Separator (SV029)

EU 053 Briquette Bulkbag, Blender and Conveyor

EU 054 Briquette Cooler

FS 006 Paved Roads

FS 009 Ash loading into Trucks

MR 001 NOx CEMS

SV 015 Boiler # 3

SV 025 Flare Stack (CE 014)

SV 026 Wood Receiving (CE 011)

SV 027 Wood Feed (CE 012)

SV 028 Ash Handling (CE 013)

SV 029 Media Product Separator

SV 030 Briquette Bulkbag, Blender and Conveyor

SV 031 Briquette Cooler

What to do	Why to do it
EMISSION LIMITS	. hdr
Operating Hours: less than or equal to 6500 hours/year using 12-month Rolling Sum . This limit applies to EU040 when combusting any producer gas.	Title I Condition: To avoid classification as major source under 40 Section CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
OPERATIONAL REQUIREMENTS	hdr
The Permittee shall operate and maintain CE011, CE012, CE013, CE014, CE015, CE016, and CE017 as required by this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain CE011 at all times that EU048 is in operation. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain CE012 at all times that EU049 is in operation. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain CE013 at all times that EU051 is in operation. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain CE015 at all times that EU050 is in operation. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2

Facility Name: Chippewa Valley Ethanol Co LLLP

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The Permittee shall operate and maintain CE016 at all times that EU050 is in operation. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain CE017 at all times that EU053 and/or EU054 is/are in operation. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
RECORDKEEPING AND REPORTING	hdr
Daily Recordkeeping - Operating Hours: By the end of each operating day, the Permittee shall calculate and record the total operating hours for the previous calendar day in which EU040 combusted any producer gas.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5
Monthly Recordkeeping - Operating Hours: By the 15th day of the month, the Permittee shall calculate and record the hours of operation in which EU040 combusted producer gas in the previous month and the 12-month rolling sum of hours of operation in which EU040 combusted any producer gas using the monthly operating data for the previous 12 months.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5
See subject items associated with this group for additional monitoring, recordkeeping, reporting, and performance testing requirements	hdr

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **GP 009 Solid Waste Storage Requirements**

Associated Items: BG 001 Gasifier Building

BG 002 Wood Receiving Building

BG 003 Char-Ash Load-out Building

What to do	Why to do it
SOLID WASTE STORAGE STANDARDS	hdr
Biomass than has been approved by the MPCA's beneficial use of solid waste program in the form of a Standing Beneficial Use Determination when it is used as fuel must be managed in accordance with Minn. R. 7035.2855, subps. 2, 6, and 7 prior to use as a fuel. These requirements do not apply to on-site storage of agricultural crop residues to be used as fuel that are traditionally managed by leaving on fields.	Minn. R. 7035.2855

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **GP 010 Grain Receiving, Transfer and Storage**

Associated Items:
CE 020 Fabric Filter - Low Temperature, i.e., T<180 Degrees F
CE 021 Fabric Filter - Low Temperature, i.e., T<180 Degrees F
EU 057 Truck Receiving Dump Pit 1
EU 058 Receiving Conveyor 1
EU 059 Receiving Conveyor 2
EU 060 Elevator 1
EU 061 Transfer Conveyor 1
EU 062 Transfer Conveyor 2
EU 063 Silo 1
EU 064 Silo 2
EU 065 Silo Reclaim Conveyor 1
EU 066 Silo Reclaim Conveyor 2
EU 067 Reclaim Elevator
EU 068 Truck Receiving Dump Pit 2
EU 069 Receiving Conveyor 3
EU 070 Receiving Conveyor 4
EU 071 Elevator 2
EU 072 Transfer Conveyor 3
EU 073 Transfer Conveyor 4
EU 074 Silo 3
EU 075 Silo 4
EU 076 Silo Reclaim Conveyor 3
EU 077 Silo Reclaim Conveyor 4
EU 078 Silo Reclaim Conveyor 5
EU 079 Transfer Conveyor
SV 032 Grain Receiving Baghouse #1
SV 033 Grain Receiving Baghouse #2

What to do	Why to do it
The provisions of 40 CFR pt. 60, subp. DD apply to each truck unloading station and all grain handling operations at the facility.	40 CFR Section 60.300(a)
OPERATIONAL REQUIREMENTS	hdr
All grain received by truck shall be from hopper trucks.	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.	40 CFR Section 60.12
PERFORMANCE TEST REQUIREMENTS (see SV032 and SV033 for additional Performance Testing Requirements)	hdr
Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart of 40 CFR pt. 60.	40 CFR Section 60.8(b)

Facility Name: Chippewa Valley Ethanol Co LLLP

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The Permittee shall determine compliance with the particulate matter standards in 40 CFR Section 60.302 as follows: 1. Method 5 shall be used to determine the particulate matter concentration and the volumetric flow rate of the effluent gas. The sampling time and sample volume for each run shall be at least 60 minutes and 60 dscf. The probe and filter holder shall be operated without heaters. 2. Method 2 shall be used to determine the ventilation volumetric flow rate. 3. Method 9 and the procedures in 40 CFR Section 60.11 shall be used to determine opacity. The Permittee may use the following as alternatives to the reference methods and procedures specified: 1. For Method 5, Method 17 may be used.	40 CFR Section 60.303(b) and (c)
COMPLIANCE WITH STANDARDS AND MAINTENANCE REQUIREMENTS	hdr
Compliance with standards in 40 CFR pt. 60, other than opacity standards, shall be determined in accordance with performance tests established by 40 CFR Section 60.8, unless otherwise specified.	40 CFR Section 60.11(a)
Compliance with opacity standards in 40 CFR pt. 60 shall be determined by conducting observations in accordance with Method 9 in appendix A of 40 CFR pt. 60. For purposes of determining initial compliance, the minimum total time of observations shall be 3 hours (30 6-minute averages) for the performance test or other set of observations.	40 CFR Section 60.11(b)
The opacity standards set forth in 40 CFR pt. 60 shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided.	40 CFR Section 60.11(c)
For the purpose of demonstrating initial compliance, opacity observations shall be conducted concurrently with the initial performance test required in 40 CFR Section 60.8 unless one of the following conditions apply. If no performance test under 40 CFR Section 60.8 is required, then opacity observations shall be conducted within 60 days after achieving the maximum production rate but no later than 180 days after initial startup of the facility.	40 CFR Section 60.11(e)(1)
NOTIFICATION AND RECORDKEEPING REQUIREMENTS	hdr
Notification: due 60 days or as soon as practicable before making any physical or operational change which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart of 40 CFR pt. 60 or in 40 CFR Section 60.14(e). The notification shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice.	40 CFR Section 60.7(a)(4)
Notification: due 30 days before the anticipated date for conducting the opacity observations required by 40 CFR Section 60.11(e)(1).	40 CFR Section 60.7(a)(6)
The Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; and any malfunction of the air pollution control equipment.	40 CFR Section 60.7(b)
The Permittee shall maintain a file of all measurements including monitoring device and performance testing measurements; monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR pt. 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports, and records except as allowed under 40 CFR Section 60.7(f)(1)-(3).	40 CFR Section 60.7(f)

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **GP 011 Grain Receiving**

Associated Items: EU 057 Truck Receiving Dump Pit 1

EU 068 Truck Receiving Dump Pit 2

What to do	Why to do it
RECEIVING LIMITS	hdr
Process Throughput: less than or equal to 728,000 tons/year using 12-month Rolling Sum of grain received.	[Stage 1] Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. Stat. 116.07 subd. 4a & 9; Minn. R. 7007.0100 subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800 subp. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
Process Throughput: less than or equal to 7,500 tons/day of grain received. This limit applies during the month of October of each year.	[Stage 1] Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. Stat. 116.07 subd. 4a & 9; Minn. R. 7007.0100 subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800 subp. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
Process Throughput: less than or equal to 4,375 tons/day of grain received. This limit applies during the months of March through September and November of each year.	[Stage 1] Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. Stat. 116.07 subd. 4a & 9; Minn. R. 7007.0100 subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800 subp. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
Process Throughput: less than or equal to 3,500 tons/day of grain received. This limit applies during the months of December through February of each year.	[Stage 1] Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. Stat. 116.07 subd. 4a & 9; Minn. R. 7007.0100 subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800 subp. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
Opacity: less than or equal to 5 percent for fugitive emissions from a truck unloading station.	40 CFR Section 60.302(c)(1)
OPERATING AND RECORDKEEPING REQUIREMENTS	hdr
Grain Receiving: Limited to the hours of 6am to 10pm daily.	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
Visible Emissions: The Permittee shall check EU057 and EU068 for any visible emissions once each day of operation during daylight hours.	Minn. R. 7007.0800, subp. 4
Recordkeeping of Visible Emissions Checks: The Permittee shall record the time and date of each visible emission inspection and whether or not any visible emissions were observed.	Minn. R. 7007.0800, subps. 4 and 5
Daily Recordkeeping: On each day of operation, the Permittee shall calculate, record, and maintain the total amount of grain received. The Permittee shall also document if grain is received outside the hours of 6am to 10pm. This shall be based on throughput logs, meters, and/or delivery records.	[Stage 1] Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5
Monthly Recordkeeping: By the 15th day of each month, the Permittee shall calculate and record the following: 1. The total grain received for the previous calendar month using the daily grain received records. 2. The 12 month rolling sum grain received for the previous 12 month period by summing the monthly grain received data for the previous 12 months.	Minn. R. 7007.0800, subps. 4 and 5

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **GP 012 Grain Handling**

Associated Items:
EU 058 Receiving Conveyor 1
EU 059 Receiving Conveyor 2
EU 060 Elevator 1
EU 061 Transfer Conveyor 1
EU 062 Transfer Conveyor 2
EU 065 Silo Reclaim Conveyor 1
EU 066 Silo Reclaim Conveyor 2
EU 067 Reclaim Elevator
EU 069 Receiving Conveyor 3
EU 070 Receiving Conveyor 4
EU 071 Elevator 2
EU 072 Transfer Conveyor 3
EU 073 Transfer Conveyor 4
EU 076 Silo Reclaim Conveyor 3
EU 077 Silo Reclaim Conveyor 4
EU 078 Silo Reclaim Conveyor 5
EU 079 Transfer Conveyor

What to do	Why to do it
EMISSION LIMITS (see GP010 for additional requirements)	hdr
Opacity: less than or equal to 0 percent for fugitive emissions from grain handling operations.	40 CFR Section 60.302(c)(2)
OPERATING AND RECORDKEEPING REQUIREMENTS	hdr
Visible Emissions: The Permittee shall check EU058 - EU067 and EU069 - EU079 for any visible emissions once each day of operation during daylight hours.	Minn. R. 7007.0800, subp. 4
Recordkeeping of Visible Emissions Checks: The Permittee shall record the time and date of each visible emission inspection and whether or not any visible emissions were observed.	Minn. R. 7007.0800, subps. 4 and 5

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **GP 013 Facility Wide HAPs Limits**

Associated Items:
EU 020 Generator #1 CI 1996 2220 Hp
EU 021 Generator #2 CI 1996 2220 Hp
EU 025 Ethanol Loadout
EU 046 Emergency Diesel Fire Water Pump Engine CI 2003 660 Hp
FS 004 Valve, Flange, and Seal Fugitive Emissions
SV 003 Process scrubber (CE 003)
SV 005 Boiler 1
SV 013 Boiler 2
SV 014 Fermentation Scrubber (CE 006)
SV 015 Boiler # 3
SV 024 Regenerative Thermal Oxidizer
SV 025 Flare Stack (CE 014)
TK 001 Ethanol
TK 002 Gasoline
TK 003 Ethanol
TK 004 Gasoline
TK 005 Ethanol
TK 007 Purified Ethanol
TK 008 Ind. Ethanol
TK 009 Ind. Ethanol
TK 010 Ind. Ethanol
TK 011 Ethyl Acetate
TK 013 Ind. Ethanol
TK 014 Ethanol
TK 015 Ind. Ethanol
TK 016 Methanol

What to do	Why to do it
LIMITS FOR HAPs	hdr
HAPs - Total: less than or equal to 22.00 tons/year using 12-month Rolling Sum to be calculated by the 15th day of each month for the previous 12-month period. This limit applies to the sum of all HAPs emitted by GP013 and emissions from Glacial Plains Cooperative.	Title I Condition: Limit to avoid major source classification under 40 CFR Section 63.2; Minn. R. 7007.0200; Minn. R. 7007.0800, subp. 2
HAP-Single: less than or equal to 8.00 tons/year using 12-month Rolling Sum to be calculated by the 15th day of each month for the previous 12-month period. This limit applies to the sum of each HAP emitted by GP013 and from Glacial Plains Cooperative.	Title I Condition: Limit to avoid major source classification under 40 CFR Section 63.2; Minn. R. 7007.0200; Minn. R. 7007.0800, subp. 2

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Monthly Recordkeeping - HAP Emissions. By the 15th of the month, the Permittee shall calculate and record the following: 1) The total and individual HAP emissions for the previous month. The Permittee shall establish emission factors based on site-specific performance test data, manufacturer's guarantees, and AP-42 emission factors and use this data to calculate actual individual and total HAP emissions. Actual emissions shall be based on actual monthly production, actual hours of operation for the month, and actual amounts of fuel combusted for the month. If test data is not available for a specific emission point and HAP, the Permittee shall use the emission factor for that emission point and HAP in the most recent permit application. If actual production or hours of operation or fuel combusted data is not available, the Permittee shall calculate emissions assuming continuous operation for the calculation period. (continued below)	Title I Condition: Limit to avoid major source classification under 40 CFR Section 63.2; Minn. R. 7007.0200; Minn. R. 7007.0800, subps. 4 and 5
(continued from above) 2) The 12 month rolling sum for total and individual HAPs emissions shall be determined by summing the monthly emissions data for the previous 12 months for total and individual HAPs.	Title I Condition: Limit to avoid major source classification under 40 CFR Section 63.2; Minn. R. 7007.0200; Minn. R. 7007.0800, subps. 4 and 5

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **SV 012 DDGS Handling & Loadout (CE 002)**

Associated Items: EU 022 DDGS Loadout Pit

EU 023 DDGS Elevator (to loadout)

EU 042 DDGS Loadout

What to do	Why to do it
EMISSION LIMITS (see EU022, EU042 and CE002 for additional requirements)	hdr
Total Particulate Matter: less than or equal to 0.44 lbs/hour	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000
PM < 10 micron: less than or equal to 0.15 lbs/hour	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **SV 016 Hammermill/handling baghouse**

Associated Items: EU 002 Grain Cleaning

EU 003 Hammermill #1

EU 032 Hammermill #2

EU 033 Hammermill #3

EU 034 Hammermill #4

EU 041 Grain Conveyor

EU 056 Specialty Grain Pit

What to do	Why to do it
EMISSION LIMITS (see EU041, EU056 and CE005 for additional requirements)	hdr
Total Particulate Matter: less than or equal to 0.01 grains/dry standard cubic foot . This limit applies to the emissions exhausted to SV016 by EU056.	40 CFR Section 60.302(b)(1)
Opacity: less than or equal to 0 percent . This limit applies to the emissions exhausted to SV016 by EU056.	40 CFR Section 60.302(b)(2)
PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due 60 days after achieving maximum capacity, but not later than 180 days after initial startup of EU056 at increased capacity for Total Particulate Matter emissions from SV016.	40 CFR Section 60.8(a)
Performance Test: due 60 days after achieving maximum capacity, but not later than 180 days after initial startup of EU056 at increased capacity for Opacity from SV016.	40 CFR Section 60.8(a)

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **SV 024 Regenerative Thermal Oxidizer**

Associated Items: EU 014 Dryer

EU 025 Ethanol Loadout

EU 039 Dryer #2

EU 047 Regenerative Thermal Oxidizer (SV024)

GP 001 NOx Emissions from Fuel Combustion

GP 007 DDGS Dryers

GP 013 Facility Wide HAPs Limits

What to do	Why to do it
EMISSION LIMITS (see CE010, EU025 and GP007 for additional requirements)	hdr
Total Particulate Matter: less than or equal to 8.34 lbs/hour	Title I Condition: 40 CFR Section 52.21 (j): BACT and Minn. R. 7007.3000
Total Particulate Matter: less than or equal to 5.00 lbs/hour using 24-hour Rolling Average	[Stage 1] Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000
Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. Because it has been shown that the facility does not cause a violation of ambient air quality standards, and is located outside the Mpls/St. Paul air quality control region and the city of Duluth, and is located at least ¼ mile from any residence or public roadway, and EU014 and EU039 are controlled by control equipment which has a destruction efficiency of 85% by weight, EU014 and EU039 considered to be in compliance with this requirement.	Minn. R. 7011.0610, subp. 1(A)(1) and Minn. R. 7011.0715, subp. 3
PM < 10 micron: less than or equal to 8.34 lbs/hour	Title I Condition: 40 CFR Section 52.21 (j): BACT and Minn. R. 7007.3000
PM < 10 micron: less than or equal to 5.00 lbs/hour using 24-hour Block Average	[Stage 1] Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. Stat. 116.07 subd. 4a & 9; Minn. R. 7007.0100 subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800 subp. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
PM < 2.5 micron: less than or equal to 4.10 lbs/hour using 24-hour Block Average	[Stage 1] Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. Stat. 116.07 subd. 4a & 9; Minn. R. 7007.0100 subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800 subp. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0610, subp. 1(A)(2)
TESTING REQUIREMENTS	hdr
Performance Test: due before end of each 60 months starting 07/26/2005 for total particulate matter.	Title I Condition: 40 CFR Section 52.21 (j): BACT and Minn. R. 7007.3000; Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each calendar 60 months starting 07/26/2005 for PM < 10 microns.	Title I Condition: 40 CFR Section 52.21 (j): BACT and Minn. R. 7007.3000; Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each calendar 60 months starting 07/26/2010 for PM < 2.5 microns.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each calendar 60 months starting 07/26/2010 to measure opacity.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **SV 026 Wood Receiving (CE 011)**

Associated Items: EU 048 Wood Receiving (SV026)

GP 008 Gasification Emissions Increase

What to do	Why to do it
EMISSIONS LIMITS (see EU048, CE011 and GP008 for additional requirements)	hdr
Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. (The limited PTE of this unit is 0.003 gr/dscf or 0.62 lb/hr).	Minn. R. 7011.0715, subp. 1(A)
PM < 10 micron: less than or equal to 0.25 lbs/hour using 24-hour Block Average	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
PM < 2.5 micron: less than or equal to 0.08 lbs/hour using 24-hour Block Average	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
PERFORMANCE TESTING	hdr
Performance Test: due before end of each calendar 60 months starting 08/05/2008 or within 90 days of resuming operation if EU048 is not in operation before 8/5/2013 to measure PM <10 micron emissions.	Minn. R. 7017.2020, subp. 1
Performance Test: due before 08/05/2013 or within 90 days of resuming operation if EU048 is not in operation before 8/5/2013 to measure PM <2.5 micron emissions.	Minn. R. 7017.2020, subp. 1

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **SV 027 Wood Feed (CE 012)**

Associated Items: EU 049 Wood Feed (SV027)

GP 008 Gasification Emissions Increase

What to do	Why to do it
EMISSIONS LIMITS (see CE012 and GP008 for additional requirements)	hdr
Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735.	Minn. R. 7011.0715, subp. 1(A)
PM < 10 micron: less than or equal to 0.42 lbs/hour using 24-hour Block Average	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
PM < 2.5 micron: less than or equal to 0.25 lbs/hour using 24-hour Block Average	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
PERFORMANCE TESTING	hdr
Performance Test: due before 08/05/2013 or within 90 days of resuming operation if EU049 is not in operation before 8/5/2013 to measure PM <2.5 micron emissions.	Minn. R. 7017.2020, subp. 1

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **SV 028 Ash Handling (CE 013)**

Associated Items: EU 051 Ash Handling (SV028)

GP 008 Gasification Emissions Increase

What to do	Why to do it
EMISSIONS LIMITS	hdr
Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. PTE = 0.003 gr/dscf or 0.77 lb/hr.	Minn. R. 7011.0715, subp. 1(A)
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **SV 029 Media Product Separator**

Associated Items: EU 052 Media Product Separator (SV029)

GP 008 Gasification Emissions Increase

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.060 lbs/hour . This limit is more stringent than the limit imposed by the Industrial Process Equipment Rule, Minn. R. 7007.0715, subp. 1(A) (0.30 grains/dry standard cubic foot) which also applies.	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 10 micron: less than or equal to 0.060 lbs/hour using 24-hour Block Average	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800; subp. 2
PM < 2.5 micron: less than or equal to 0.02 lbs/hour using 24-hour Block Average	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
PERFORMANCE TESTING	hdr
Performance Test: due before end of each calendar 60 months starting 08/05/2008 or within 90 days of resuming operation if EU052 is not in operation before 8/5/2013 to measure Total Particulate Matter emissions. For additional applicable performance test requirements see "General Performance Test Requirements" in Table A, subject item "Total Facility".	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each calendar 60 months starting 08/05/2008 or within 90 days of resuming operation if EU052 is not in operation before 8/5/2013 to measure PM <10 micron emissions. For additional applicable performance test requirements see "General Performance Test Requirements" in Table A, subject item "Total Facility".	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Performance Test: due before 08/05/2013 or within 90 days of resuming operation if EU052 is not in operation before 8/5/2013 to measure PM < 2.5 micron emissions. For additional applicable performance test requirements see "General Performance Test Requirements" in Table A, subject item "Total Facility".	Minn. R. 7017.2020, subp. 1

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **SV 030 Briquette Bulkbag, Blender and Conveyor**

Associated Items: EU 053 Briquette Bulkbag, Blender and Conveyor

GP 008 Gasification Emissions Increase

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.01 lbs/hour . This limit is more stringent than the limit imposed by the Industrial Process Equipment Rule, Minn. R. 7007.0715, subp. 1(A) (0.30 grains/dry standard cubic foot) which also applies.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 10 micron: less than or equal to 0.01 lbs/hour using 24-hour Block Average	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 2.5 micron: less than or equal to 0.005 lbs/hour using 24-hour Block Average	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
PERFORMANCE TESTING	hdr
Performance Test: due before end of each calendar 60 months starting 08/05/2008 or within 90 days of resuming operation if EU052 is not in operation before 8/5/2013 to measure Total Particulate Matter emissions.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each calendar 60 months starting 08/05/2008 or within 90 days of resuming operation if EU052 is not in operation before 8/5/2013 to measure PM < 10 micron emissions.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Performance Test: due before 08/05/2013 or within 90 days of resuming operation if EU052 is not in operation before 8/5/2013 to measure PM < 2.5 micron emissions.	Minn. R. 7017.2020, subp. 1

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **SV 031 Briquette Cooler**

Associated Items: EU 054 Briquette Cooler

GP 008 Gasification Emissions Increase

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.01 lbs/hour . This limit is more stringent than the limit imposed by the Industrial Process Equipment Rule, Minn. R. 7007.0715, subp. 1(A) (0.30 grains/dry standard cubic foot) which also applies.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 10 micron: less than or equal to 0.01 lbs/hour using 24-hour Block Average	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 2.5 micron: less than or equal to 0.005 lbs/hour using 24-hour Block Average	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
PERFORMANCE TESTING	hdr
Performance Test: due before end of each calendar 60 months starting 08/05/2008 or within 90 days of resuming operation if EU052 is not in operation before 8/5/2013 to measure Total Particulate Matter emissions.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each calendar 60 months starting 08/05/2008 or within 90 days of resuming operation if EU052 is not in operation before 8/5/2013 to measure PM < 10 micron emissions.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Performance Test: due before 08/05/2013 or within 90 days of resuming operation if EU052 is not in operation before 8/5/2013 to measure PM < 2.5 micron emissions.	Minn. R. 7017.2020, subp. 1

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **SV 032 Grain Receiving Baghouse #1**

Associated Items: EU 057 Truck Receiving Dump Pit 1

EU 058 Receiving Conveyor 1

EU 059 Receiving Conveyor 2

EU 060 Elevator 1

EU 061 Transfer Conveyor 1

EU 062 Transfer Conveyor 2

EU 063 Silo 1

EU 064 Silo 2

EU 065 Silo Reclaim Conveyor 1

EU 066 Silo Reclaim Conveyor 2

EU 067 Reclaim Elevator

EU 079 Transfer Conveyor

GP 010 Grain Receiving, Transfer and Storage

What to do	Why to do it
APPLICABILITY (see GP010 for additional requirements)	hdr
The provisions of 40 CFR pt. 60, subp. DD apply to each truck unloading station and all grain handling operations at the facility.	40 CFR Section 60.300(a)
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 2.25 lbs/hour	[Stage 1] Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 10 micron: less than or equal to 2.25 lbs/hour using 24-hour Block Average	[Stage 1] Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. Stat. 116.07 subd. 4a & 9; Minn. R. 7007.0100 subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800 subp. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
PM < 2.5 micron: less than or equal to 2.25 lbs/hour using 24-hour Block Average	[Stage 1] Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. Stat. 116.07 subd. 4a & 9; Minn. R. 7007.0100 subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800 subp. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
Total Particulate Matter: less than or equal to 0.01 grains/dry standard cubic foot	40 CFR Section 60.302(b)(1)
Opacity: less than or equal to 0 percent	40 CFR Section 60.302(b)(2)
OPERATING AND RECORDKEEPING REQUIREMENTS	hdr
Visible Emissions: The Permittee shall check SV032 for any visible emissions once each day of operation during daylight hours.	Minn. R. 7007.0800, subp. 4
Recordkeeping of Visible Emissions Checks: The Permittee shall record the time and date of each visible emission inspection and whether or not any visible emissions were observed.	Minn. R. 7007.0800, subps. 4 and 5
PERFORMANCE TESTING REQUIREMENTS (see GP010 for additional performance testing requirements)	hdr
Performance Test: due 60 days after achieving maximum capacity, but not later than 180 days after initial startup for Total Particulate Matter emissions from SV032.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; 40 CFR Section 60.8(a)
Performance Test: due 60 days after achieving maximum capacity, but not later than 180 days after initial startup for Opacity from SV032.	40 CFR Section 60.8(a)
Performance Test: due 180 days after Initial Startup to measure PM < 10 micron emissions.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7017.202, subp. 1
Performance Test: due 180 days after Initial Startup to measure PM < 2.5 micron emissions.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **SV 033 Grain Receiving Baghouse #2**

Associated Items: EU 068 Truck Receiving Dump Pit 2

EU 069 Receiving Conveyor 3

EU 070 Receiving Conveyor 4

EU 071 Elevator 2

EU 072 Transfer Conveyor 3

EU 073 Transfer Conveyor 4

EU 074 Silo 3

EU 075 Silo 4

EU 076 Silo Reclaim Conveyor 3

EU 077 Silo Reclaim Conveyor 4

EU 078 Silo Reclaim Conveyor 5

GP 010 Grain Receiving, Transfer and Storage

What to do	Why to do it
APPLICABILITY (see GP010 for additional requirements)	hdr
The provisions of 40 CFR pt. 60, subp. DD apply to each truck unloading station and all grain handling operations at the facility.	40 CFR Section 60.300(a)
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 2.25 lbs/hour	[Stage 1] Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 10 micron: less than or equal to 2.25 lbs/hour	[Stage 1] Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. Stat. 116.07 subd. 4a & 9; Minn. R. 7007.0100 subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800 subp. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
PM < 2.5 micron: less than or equal to 2.25 lbs/hour	[Stage 1] Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. Stat. 116.07 subd. 4a & 9; Minn. R. 7007.0100 subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800 subp. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
Total Particulate Matter: less than or equal to 0.01 grains/dry standard cubic foot	40 CFR Section 60.302(b)(1)
Opacity: less than or equal to 0 percent	40 CFR Section 60.302(b)(2)
OPERATING AND RECORDKEEPING REQUIREMENTS	hdr
Visible Emissions: The Permittee shall check SV033 for any visible emissions once each day of operation during daylight hours.	Minn. R. 7007.0800, subp. 4
Recordkeeping of Visible Emissions Checks: The Permittee shall record the time and date of each visible emission inspection and whether or not any visible emissions were observed.	Minn. R. 7007.0800, subps. 4 and 5
PERFORMANCE TESTING REQUIREMENTS (see GP010 for additional performance testing requirements)	hdr
Performance Test: due 60 days after achieving maximum capacity, but not later than 180 days after initial startup for Total Particulate Matter emissions from SV033.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; 40 CFR Section 60.8(a)
Performance Test: due 60 days after achieving maximum capacity, but not later than 180 days after initial startup for Opacity from SV033.	40 CFR Section 60.8(a)
Performance Test: due 180 days after Initial Startup to measure PM < 10 micron emissions.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Performance Test: due 180 days after Initial Startup to measure PM < 2.5 micron emissions.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **EU 022 DDGS Loadout Pit**

Associated Items: CE 002 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

SV 012 DDGS Handling & Loadout (CE 002)

What to do	Why to do it
REQUIREMENTS FOR UNCAPTURED DDGS EMISSIONS	hdr
Opacity: less than or equal to 5 percent opacity for fugitive emissions from railcar loading of DDGS or DDGS handling activities	Minn. R. 7011.1005, subp. 3(A)
Opacity: less than or equal to 10 percent opacity for fugitive emissions from DDGS truck loading	Minn. R. 7011.1005, subp. 3(B)
Once each day that DDGS is loaded, visually inspect for fugitive emissions and keep a record of the following: 1. date of inspection 2. whether DDGS was loaded to rail or truck 3. the estimated opacity 4. corrective actions taken, if any	Minn. R. 7007.0800 subp. 4, 5, and 14

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **EU 025 Ethanol Loadout**

Associated Items: CE 010 Regenerative Thermal Oxidizer

GP 013 Facility Wide HAPs Limits

SV 024 Regenerative Thermal Oxidizer

What to do	Why to do it
TRUCK LOADOUT (see CE010, GP007 and SV024 for additional applicable requirements)	hdr
The ethanol truck loadout shall vent to CE010 at all times when EU025 is in operation except as provided below.	Title I Condition: 40 CFR Section 52.21(j): BACT and Minn. R. 7007.3000; Title I Condition: CAAA of 1990; Minn. R. 7007.0800, subp. 2
Process Throughput: less than or equal to 2000000 gallons/year using 12-month Rolling Sum of ethanol loaded during uncontrolled operation of the ethanol truck loadout.	Title I Condition: 40 CFR Section 52.21(j): BACT and Minn. R. 7007.3000; Title I Condition: CAAA of 1990; Minn. R. 7007.0800, subp. 2
RAIL LOADOUT	hdr
All railcars shall be dedicated fleet (carry ethanol only). The ethanol rail loadout is not connected to the RTO. No loadout controls are required for dedicated fleet rail cars.	Title I Condition: 40 CFR Section 52.21(j): BACT and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
RECORDKEEPING	hdr
Each time ethanol is loaded-out, record the following: 1. gallons of ethanol loaded-out 2. truck or rail 3. whether truck loadout was controlled by CE 010 4. whether the railcars were dedicated fleet (carry only ethanol)	Title I Condition: 40 CFR Section 52.21(j): BACT and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5
By the 15th day of each month, the Permittee shall record the previous months total and the 12-month rolling sum of gallons of ethanol loaded on the ethanol truck loadout when CE010 is not in operation.	Title I Condition: 40 CFR Section 52.21(j): BACT and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 11

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **EU 040 Boiler # 3**

Associated Items: CE 015 Multiple Cyclone w/o Fly Ash Reinjection - Most Multiclones

CE 016 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

GP 001 NOx Emissions from Fuel Combustion

GP 008 Gasification Emissions Increase

MR 001 NOx CEMS

SV 015 Boiler # 3

What to do	Why to do it
BOILER DERATE REQUIREMENTS	hdr
The waste heat boiler has been derated to limit fuel input for natural gas, propane, or producer gas (from biomass gasification) to a maximum of 99.5 MMBTU/hr.	Minn. R. 7011.0540
For the installed boiler steam flow meter, the Permittee shall: (1) submit a written report to the Commissioner of the agency within ten days of any excess steam flow occurrence above the specified derate load; (2) use a one-hour averaging period in determining an excess above derate with corrections for deviations in steam pressure or temperature if required; (3) submit written yearly reports to the Commissioner of the agency confirming that no excesses have occurred during normal operations; (4) retain and make available for inspection by the agency or its authorized employees or agents steam flow charts for a minimum period of two years following the date of measurement.	Minn. R. 7011.0540(C)(1), (2), (3), and (4)
FUEL USE LIMIT	hdr
Fuel Usage: less than or equal to 24900 tons/year using 12-month Rolling Sum of dry tons of biomass fed to the gasification system, to be calculated and recorded by the 15th day of each month for the previous 12 months. This requirement has been requested by the Permittee to avoid an EAW, which would be mandatory at 25,000 tons of dry biomass utilization in fuel conversion construction projects.	Minn. R. 4410.4300, subp. 5(A)
Fuel Usage: less than or equal to 23360 tons/year using 12-month Rolling Sum (as dry tons of biomass) calculated and recorded daily, unless a new maximum is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new maximum shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The new maximum is final upon issuance of a permit amendment incorporating the change.	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
Allowable Fuels: Natural gas, propane (see GP001 limits), and producer gas	Minn. R. 7005.0100, subp. 35a
Allowed biomass feedstock for regular production mode is unadulterated wood or unadulterated wood mixed with corn cobs (containing no more than 63% corn cobs as a daily average). "Unadulterated wood" means: wood that does not contain contaminants present as a result of manufacturing or use of the wood. Examples of contaminants include paints, varnishes, stains, glues, resins or chemicals used to prevent rotting. Allowed unadulterated wood are: sawdust, sanderdust, wood chips, scraps, slabs, millings, shavings, and processed pellets made from tree trimmings, wood or other forest residues.	Minn. R. 7007.0800, subp. 2
Allowed biomass feedstock for regular production mode which is subject to a letter of approval from the EPA and submitted to the MPCA is unadulterated wood mixed with glycerin (containing no more than 10% glycerin as a daily average).	Minn. R. 7007.0800, subp. 2
ALTERNATIVE FEEDSTOCK PILOT TESTING AND SUBMITTALS	hdr
Material Usage: less than or equal to 3500 tons/year of each type of allowed biomass, to be used for pilot testing. This 3500 ton/yr of each biomass must be included in the total 23360 ton/yr of allowed biomass.	Minn. R. 7007.0800, subp. 4 and 5

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Allowed biomass for the purpose of conducting test burns includes: sugar beet residue, corn stover, oat hulls, wheat straw, switch grass, prairie grass, soybean stubble, sugar cane residue, palm residue, and sunflower hulls. Biomass does not include: coal, peat, painted/treated wood, railroad ties and tires.	Minn. R. 7007.0800, subp. 2
Allowed biomass for the purpose of conducting test burns subject to a letter of approval from the EPA submitted to the MPCA includes: DDGS, corn oil, soybean oil, glycerin, black liquor, lignin, pyrolysis oil, and torrified biomass. Biomass does not include: coal, peat, painted/treated wood, railroad ties and tires.	Minn. R. 7007.0800, subp. 2
Recordkeeping: Calculate, record and maintain the total usage of all fuels for all test burns, whether or not stack performance testing is conducted. For each test burn, record the total weight, and type(s) of fuel fired, approximate moisture content(s) of each type of solid fuel fired.	Minn. R. 7007.0800, subp. 5
Any approved alternate feedstock must be fired in existing equipment authorized by this permit. In no instance does this permit authorize the Permittee to make any physical or operational changes that would trigger the applicability of a New Source Performance Standard, Maximum Achievable Control Technology, or Prevention of Significant Deterioration.	40 CFR Section 52.21; 40 CFR pt. 60; 40 CFR pt. 63; Minn. R. 7007.3000
Alternative Feedstock Fuel Pilot Testing Submittals: 30 days prior to stack performance testing of a biomass fuel. The Permittee shall submit a written performance test notification and test plan. The test plan shall meet the requirements of Minn. R. 7017.2030 and shall include: 1) the type(s) and estimated amount of biomass to be tested, 2) operating parameters and anticipated fuel mixes during testing, 3) a preliminary list of air pollutants that will be monitored and measured during testing, and 4) a testing schedule Actual air pollutants to be monitored and measured during the test will be determined jointly by MPCA staff and the Permittee after receipt of the test plan.	Minn. R. 7007.0800, subp. 4 and 5
EMISSIONS LIMITS	hdr
Opacity: less than or equal to 20 percent opacity using 6-minute Average , except for one 6-minute period per hour of not more than 27 percent opacity. This limit does not apply during periods of startup, shutdown, or malfunction.	40 CFR Section 60.43c(c); Minn. R. 7011.0570
Total Particulate Matter: less than or equal to 0.030 lbs/million Btu heat input . This emission limit does not apply during periods of startup, shutdown, or malfunction.	40 CFR Section 60.43c(e)(1); Minn. R. 7011.0570
Total Particulate Matter: less than or equal to 0.10 lbs/million Btu heat input if over 30 percent of the heat input is derived from wood on an annual basis. This emission limit does not apply during periods of startup, shutdown, or malfunction.	40 CRF Section 60.43c(e)(3); Minn. R. 7011.0570
Total Particulate Matter: less than or equal to 2 lbs/hour using 24-hour Block Average while combusting biomass producer gas.	Minn. R. 7007.0800, subp. 2
PM < 10 micron: less than or equal to 2 lbs/hour using 24-hour Block Average while combusting biomass producer gas.	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
Units that burn only oil containing no more than 0.5 weight percent sulfur or liquid or gaseous fuels with potential sulfur dioxide emission rates of 230 ng/J (0.54 lb/MMBtu) heat input or less are not required to conduct emissions monitoring if they maintain fuel supplier certifications of the sulfur content of the fuels burned. The Permittee shall keep these records onsite and make them available for review at the time of inspection.	40 CFR Section 60.45c(c)
Steam generating units which meet the applicability requirements in 40 CFR Section 60.40c(a) are not subject to the sulfur dioxide (SO2) or particulate matter (PM) emissions limits, performance testing requirements, or monitoring requirements under this Sections 60.42c, 60.43c, 60.44c, 60.45c, 60.46c, or 60.47c during periods of combustion research, as defined in 40 CFR Section 60.41c.	40 CFR Section 60.40c(a) and (c)
MONITORING AND RECORDKEEPING	hdr
Emissions Monitoring: The owner or operator shall use a NOx CEMS to measure NOx emissions from SV 015, (stack for Boiler # 3, EU 040.) Monitoring requirements are located under the subject item MR 001.	Minn. R. 7017.1006

The Permittee shall maintain records adequate to document compliance at the stationary source, including at a minimum: (1) the date, place, and time of sampling or measurement; (2) the date or dates the analyses were performed; (3) the company or entity that performed the analyses; (4) the analytical techniques or methods used; (5) the results of such analyses; and, (6) the operating conditions existing at the time of sampling or measurement.	Minn. R. 7007.0800, subp. 5(A)
PERFORMANCE TESTING	hdr
Minimum Performance Testing: Performance tests for emissions from EU040 using producer gas shall be conducted within 180 days after the next startup of the gasifier. Use of specific types of biomass is not a requirement. A test conducted pursuant to "Alternative Biomass Fuel Testing Submittals" can be used to meet this requirement.	Minn. R. 7017.2020, subp. 1
Performance Test: due 180 days after Startup of the gasifier to measure Total Particulate Matter Emissions.	Minn. R. 7017.2020, subp. 1
Performance Test: due 180 days after Startup of the gasifier to measure PM < 10 micron emissions.	Minn. R. 7017.2020, subp. 1
EMISSION FACTOR DEVELOPMENT	hdr
Monitoring shall be performed by the Permittee by: 1.) using a single CEM at stack 15 (SV015) to directly measure NOx emissions; 2.) determining a mass emission rate from a fuel factor (as determined by approved methods, such as EPA Method 19, 40 CFR pt. 60); 3.) using these values, along with the heat content of the product gas, natural gas, and propane (as determined by approved methods) combusted in the Boiler # 3 (EU040), to determine NOx emissions in lbs./MMBtu. The Permittee will measure product gas, natural gas, and propane fuel flow to the Boiler# 3 and, using a BTU-weighted fuel factor, will calculate the NOX emission rate using the following calculation: NOx emissions (lb/MMBtu) = Cd * Fd * Cf * [20.9/20.9 - %O2], where: Cd = NOx (ppm), measured dry Fd = BTU-weighted fuel factor, standard cubic foot of flue gas (dry basis) per heat content of fuel (dscm/MMBtu) Cf = 1.19 * 10 ^ (-7), unit conversion (ppm to lb/scf)	Minn. R. 7007.0800, subp. 4 and 5
and the BTU-weighted fuel factor shall be calculated using the following equation: Fd = Fdng * (Qng/Qt) + Fdpg * (Qpg/Qt), where: Fdng = Fuel factor of natural gas, 8710, or other approved value Fdpg = Fuel factor of product gas, calculated with data based on an ultimate analysis of product gas, once the gasifier is operational Qng = heat flow of product gas (MMBtu/hr) Qt = Total heat flow of natural gas and product gas to the Boiler# 3, Qng + Qpg (MMBtu/hr) Alternatively, the Permittee may use the following methodology: 2. Calculate the NOx contribution from natural gas or propane combustion: NOx emissions on a lb/MMBtu basis from the combustion of natural gas and propane only will be determined by utilizing the latest stack test data reviewed and approved by the MPCA. The NOx emission rate will be converted to lb/hr by measuring the total amount of natural gas or propane combusted in the waste heat boiler. 3. Calculate the NOx contribution of producer gas: Enox	Minn. R. 7007.0800, subp. 4 and 5
NOx Calculation Continued Npg = NOx emissions from the boiler # 3 as measured by the CEM while combusting producer gas Ngas = NOx emissions from the boiler # 3 attributable to natural gas combustion Npropane = NOx emissions from the boiler # 3 attributable to propane combustion, and Enox (ton/yr) = Enox (lb/hr) * H, where H = hours of operation while combusting producer producer gas	Minn. R. 7007.0800, subp. 4 and 5

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **EU 042 DDGS Loadout**

Associated Items: CE 002 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

SV 012 DDGS Handling & Loadout (CE 002)

What to do	Why to do it
REQUIREMENTS FOR UNCAPTURED DDGS EMISSIONS	hdr
Opacity: less than or equal to 5 percent opacity for fugitive emissions from railcar loading of DDGS or DDGS handling activities	Minn. R. 7011.1005, subp. 3(A)
Opacity: less than or equal to 10 percent opacity for fugitive emissions from DDGS truck loading	Minn. R. 7011.1005, subp. 3(B)
Once each day that DDGS is loaded, visually inspect for fugitive emissions and keep a record of the following: 1. date of inspection 2. whether DDGS was loaded to rail or truck 3. the estimated opacity 4. corrective actions taken, if any	Minn. R. 7007.0800 subp. 4, 5, and 14

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **EU 046 Emergency Diesel Fire Water Pump Engine CI 2003 660 Hp**

Associated Items: GP 013 Facility Wide HAPs Limits

SV 023 FWPUMP

What to do	Why to do it
NESHAP APPLICABILITY	hdr
The Permittee shall comply with the applicable emission limitations, operating limitations, and other requirements from 40 CFR pt. 63, subp. ZZZZ, including those listed below, no later than May 3, 2013.	40 CFR Section 63.6595(a)(1); Minn. R. 7011.8150
EMISSION LIMITS	hdr
Opacity: less than or equal to 20 percent once operating temperatures have been attained.	Minn. R. 7011.2300, subp. 1
Sulfur Dioxide: less than or equal to 0.5 lbs/million Btu heat input .	Minn. R. 7011.2300, subp. 2
OPERATING CONDITIONS	hdr
Fuel type: No. 2 fuel oil and biodiesel only, by design.	Minn. R. 7005.0100, 35a
RECORDKEEPING	hdr
Recordkeeping -- Hours of Operation: The Permittee shall maintain documentation on site that the unit is an emergency diesel generator by design that qualifies under the U.S. EPA memorandum entitled "Calculating Potential to Emit (PTE) for Emergency Generators" dated September 6, 1995, limiting operation to 500 hours per year.	Minn. R. 7007.0800, subps. 4 & 5
Fuel Supplier Certification: Obtain and maintain a fuel supplier certification for each shipment of No. 2 fuel oil, certifying that the sulfur content does not exceed 0.5% by weight.	Minn. R. 7007.0800, subps. 4 & 5
EMERGENCY FIRE PUMP TESTING	hdr
The weekly test of the emergency generator EU 046 shall be conducted on Fridays and begin after 12:00 PM and be completed prior to 5:00 PM. The duration of the test shall be as short as possible and may not exceed one hour.	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080; Minn. R. 7007.0800, subp. 2
During every weekly test of each emergency generator, record the following information: - The date; - The day of the week; -The time the test started; - The time the test was completed.	Minn. R. 7007.0800, subps. 4 & 5
EMISSION AND OPERATIONAL REQUIREMENTS	Hdr
Change oil and filter every 500 hours of operation or annually, whichever comes first. The Permittee has the option of utilizing an oil analysis program in order to extend the oil change requirement as described below.	40 CFR Section 63.6603; 40 CFR Section 63.6640; and Table 2d to subp. ZZZZ of pt. 63; Minn. R. 7011.8150
Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.	40 CFR Section 63.6603; 40 CFR Section 63.6640; and Table 2d to subp. ZZZZ of pt. 63; Minn. R. 7011.8150
Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	40 CFR Section 63.6603; 40 CFR Section 63.6640; and Table 2d to subp. ZZZZ of pt. 63; Minn. R. 7011.8150
The Permittee shall be in compliance with the emission limitations, operating limitations, and other requirements that apply at all times.	40 CFR Section 63.6605(a); Minn. R. 7011.8150
At all times the Permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.	40 CFR Section 63.6605(b); Minn. R. 7011.8150

The Permittee shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which shall provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.	40 CFR Section 63.6625(e); Minn. R. 7011.8150
The Permittee shall install a non-resettable hour meter if one is not already installed by May 3, 2013.	40 CFR Section 63.6625(f); Minn. R. 7011.8150
The Permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup apply.	40 CFR Section 63.6625(h); Minn. R. 7011.8150
The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis shall be performed at the same frequency specified for changing the oil. The analysis program shall at a minimum analyze the following 3 parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. (continued below)	40 CFR Section 63.6625(i); Minn. R. 7011.8150
(continued from above) If none of the condemning limits are exceeded, the Permittee is not required to change the oil. If any of the limits are exceeded, the Permittee shall change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the Permittee shall change the oil within 2 business days or before commencing operation, whichever is later. The Permittee shall keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program shall be part of the maintenance plan for the engine.	40 CFR Section 63.6625(i); Minn. R. 7011.8150
The Permittee shall operate and maintain the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or the Permittee shall develop and follow a maintenance plan which shall provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.	40 CFR Section 63.6640(a); 40 CFR pt. 63 subp. ZZZZ, Table 6
The Permittee shall comply with the General Provisions in 40 CFR Sections 63.1 through 63.15, as stated in 40 CFR pt. 63, subp. ZZZZ, Table 8, as applicable.	40 CFR Section 63.6665 and Table 8 to subp. ZZZZ of pt. 63; 40 CFR Section 63.1 - 63.15; Minn. R. 7011.8150
REQUIREMENTS FOR EMERGENCY STATIONARY RICE	Hdr
The Permittee shall operate the emergency stationary RICE according to the requirements in paragraphs 40 CFR Section 63.6640 (f)(1) through (4). Any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR Section 63.6640(f)(1) through (4), is prohibited. If the engine is not operated according to the requirements in 40 CFR Section 63.6640(f)(1) through (4), the engine will not be considered an emergency engine under 40 CFR pt. 63, subp. ZZZZ and will need to meet all requirements for non-emergency engines.	40 CFR Section 63.6640(f); Minn. R. 7011.8150
(1) There is no time limit on the use of emergency stationary RICE in emergency situations. (2) The Permittee may operate the emergency stationary RICE for any combination of the purposes specified in 40 CFR Section 63.6640(f)(2)(i) through (iii) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by 40 CFR Section 63.6640(f)(3) and (4) counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).	40 CFR Section 63.6640(f)(1) - (2); Minn. R. 7011.8150
2(i) The Permittee may operate the emergency stationary RICE for the purpose of 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 Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.	40 CFR Section 63.6640(f)(2)(i); Minn. R. 7011.8150
RECORDKEEPING REQUIREMENTS	Hdr

The Permittee shall keep the following records: 1. A copy of each notification and report submitted to comply with 40 CFR pt. 63, subp. ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status submitted according to the requirement in 40 CFR Section 63.10(b)(2)(xiv). 2. Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. 3. Records of performance tests and performance evaluations as required in 40 CFR Section 63.10(b)(2)(viii). 4. Records of all required maintenance performed on the air pollution control and monitoring equipment. 5. Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR Section 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.	40 CFR Section 63.6655(a); Minn. R. 7011.8150
The Permittee shall keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the Permittee operated and maintained the stationary RICE and after-treatment control device (if any) according to the maintenance plan.	40 CFR Section 63.6655(e); Minn. R. 7011.8150
The Permittee shall keep records of the hours of operation of the engine that are recorded through the non-resettable hour meter. The Permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in 40 CFR Section 63.6640(f)(2)(ii) or (iii) or 40 CFR Section 63.6640(f)(4)(ii), the Permittee shall keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes.	40 CFR Section 63.6655(f); Minn. R. 7011.8150
The Permittee shall keep records in a form suitable and readily available for expeditious review according to 40 CFR Section 63.10(b)(1). As specified in 40 CFR Section 63.10(b)(1), the Permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report or record.	40 CFR Section 63.6660; 40 CFR Section 63.10(b)(1); Minn. R. 7011.8150
REPORTING AND NOTIFICATION REQUIREMENTS	Hdr
The Permittee shall report each instance in which the stationary RICE did not meet each applicable operating limitation. These instances are deviations from the emission and operating limitations. These deviations shall be reported with the deviations report required by Table A (listed at the Total Facility level) and Table B of this permit.	40 CFR Section 63.6640(b); Minn. R. 7011.8150

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **EU 048 Wood Receiving (SV026)**

Associated Items: CE 011 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

GP 008 Gasification Emissions Increase

SV 026 Wood Receiving (CE 011)

What to do	Why to do it
BIOMASS RECEIVING LIMIT (see CE011, GP008 and SV026 for additional requirements)	hdr
Process Throughput: less than or equal to 500 tons/day using 24-hour Block Average of biomass received.	[Stage 1] Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. Stat. 116.07 subd. 4a & 9; Minn. R. 7007.0100 subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800 subp. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
At the time of each delivery, the Permittee shall measure and record the amount of biomass received and the date and time of delivery. Once each 24-hour period, the Permittee shall calculate and record the 24-hour block average of biomass received.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000: Minn. R. 7009.0020 for PM10

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **EU 050 Gasifier**

Associated Items: CE 014 Flaring

CE 015 Multiple Cyclone w/o Fly Ash Reinjection - Most Multiclones

CE 016 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

GP 008 Gasification Emissions Increase

SV 025 Flare Stack (CE 014)

What to do	Why to do it
EMISSION LIMITS (see CE014, CE015, CE016 and GP008 for additional requirements)	hdr
Total Particulate Matter: less than or equal to 0.003 grains/dry standard cubic foot . This limit is more stringent than the limit imposed by the Direct Heating Fossil Fuel Burning Equipment Rule, Minn. R. 7007.0610, subp. 1(A)(1) (0.30 grains/dry standard cubic foot) which also applies.	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
PM < 10 micron: less than or equal to 0.003 grains/dry standard cubic foot	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity. Compliance with limits under subject item EU040 ensures compliance with this limit.	Minn. R. 7011.0610, subp. 1(A)(2)

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **EU 051 Ash Handling (SV028)**

Associated Items: CE 013 Fabric Filter - Medium Temperature i.e., 180 F<T<250 F

GP 008 Gasification Emissions Increase

SV 028 Ash Handling (CE 013)

What to do	Why to do it
ASH LOADOUT LIMITS (see SV028 and GP008 for additional requirements)	hdr
Process Throughput: less than or equal to 25.4 tons/day using 24-hour Block Average of ash loadout.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; to avoid major source classification under 40 CFR Section 70.2 & Minn. R. 7007.0200; Minn. Stat. 116.07 subd. 4a & 9; Minn. R. 7007.0100 subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800 subp. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
Moisture Content: greater than or equal to 11.4 percent by weight , to be sampled, analyzed, and recorded each time ash is loaded out.	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000 for PM10
The Permittee shall not operate ash handling equipment without the water spray.	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
RECORDKEEPING REQUIREMENT	hdr
Each time ash is loaded out, the Permittee shall measure and record the amount of ash loaded out and record the date and time. Once each 24-hour period, the Permittee shall calculate and record the 24-hour block average of ash loaded-out in tons per day.	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800 subp. 4 and 5

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **EU 056 Specialty Grain Pit**

Associated Items: CE 005 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

SV 016 Hammermill/handling baghouse

What to do	Why to do it
THROUGHPUT LIMITS (see CE005 and SV016 for additional requirements)	hdr
Process Throughput: less than or equal to 450 tons/day using 24-hour Block Average of organic grain from hopper-bottom trucks.	[Stage 1] Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. Stat. 116.07 subd. 4a & 9; Minn. R. 7007.0100 subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800 subp. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
Process Throughput: less than or equal to 7000 tons/year using 12-month Rolling Sum of organic grain from hopper-bottom trucks.	[Stage 1] Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. Stat. 116.07 subd. 4a & 9; Minn. R. 7007.0100 subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800 subp. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
Opacity: less than or equal to 5 percent for fugitive emissions from a truck unloading station.	40 CFR Section 60.302(c)(1)
OPERATING AND RECORDKEEPING REQUIREMENTS	hdr
Grain Receiving: Limited to the hours of 6am to 10pm daily.	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
Daily Recordkeeping: On each day of operation, the Permittee shall calculate, record, and maintain a record of the total amount of grain received. The Permittee shall also document if grain is received outside the hours of 6am to 10pm. This shall be based on throughput logs, meters, and/or delivery records.	[Stage 1] Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5
Monthly Recordkeeping: by the 15th day of each month, the Permittee shall calculate a new rolling sum using the daily records of grain received for the previous 12 months.	Minn. R. 7007.0800, subps. 4 and 5
Visible Emissions: The Permittee shall check EU056 for any visible emissions once each day of operation during daylight hours.	Minn. R. 7007.0800, subp. 4
Recordkeeping of Visible Emissions Checks: The Permittee shall record the time and date of each visible emission inspection and whether or not any visible emissions were observed.	Minn. R. 7007.0800, subps. 4 and 5

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **CE 002 Fabric Filter - Low Temperature, i.e., T<180 Degrees F**

Associated Items: EU 022 DDGS Loadout Pit

EU 023 DDGS Elevator (to loadout)

EU 042 DDGS Loadout

What to do	Why to do it
POLLUTION CONTROL REQUIREMENTS (see SV012 for additional requirements)	hdr
Total Particulate Matter: greater than or equal to 80 percent control efficiency	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 10 micron: greater than or equal to 80 percent control efficiency	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
OPERATION, RECORDKEEPING, & MAINTENANCE	hdr
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 8.0 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change. The Permittee shall record the pressure drop once every 24 hours when in operation.	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading, and whether or not the observed pressure drop was within the range specified in this permit	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000, Minn. R. 7007.0800, subps. 4 and 5
The Permittee shall operate and maintain the fabric filter (CE002) at all times that any emission unit controlled by the fabric filter is in operation. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for the fabric filter.	Minn. R. 7007.0800, subp. 4, 5, and 14
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation.	Minn. R. 7007.0800, subp. 4
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5, and 14

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **CE 003 Process Scrubber**

Associated Items: EU 017 Distillation #1

EU 018 Distillation #2

What to do	Why to do it
OPERATING REQUIREMENTS (see GP012 and SV003 for additional requirements)	hdr
Volatile Organic Compounds: greater than or equal to 95 percent control efficiency (CE 003) or less than 20 ppm VOC if the inlet concentration is below 200 ppm VOC.	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Liquid Flow Rate: greater than or equal to 3.2 gallons/minute , unless a new minimum is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new minimum shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The new minimum is final upon issuance of a permit amendment incorporating the change. The Permittee shall record the liquid flowrate once every 24 hours when in operation.	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Process Throughput: less than or equal to 680 gallons/minute using 24-hour Block Average of beer.	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
TESTING REQUIREMENTS	hdr
Performance Test: due before end of each calendar 60 months starting 04/28/2009 to measure Volatile Organic Compounds control efficiency.	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each calendar 60 months starting 04/28/2009 for Volatile Organic Compounds.	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
RECORDKEEPING AND MONITORING REQUIREMENTS	hdr
Record liquid flow rate once each day of operation.	Title I Condition: 40 CFR Section 52.21(j): BACT and Minn. R. 7007.3000
The Permittee shall measure and record beer feed rate once per hour, and compute and record the 24-hour block average feed rate.	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5
The Permittee shall operate and maintain the scrubber at all times that any emission unit controlled by the scrubber is in operation. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
Corrective Action: If the flow rate is not within the range of values specified herein, the Permittee shall take corrective action as soon as possible to return the flow rate to within the required operating values. The Permittee shall keep a record of the type and date of all corrective actions taken.	Title I Condition: 40 CFR Section 52.21(j): BACT and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14
Inspect quarterly, or more frequently if required by manufacturing specifications, all components that are not subject to wear or plugging, including structural components, housing, ducts, and hoods. Maintain a written record of the inspection and any action resulting from the inspection.	Minn. R. 7007.0800, subp. 2 and subp. 14
Calibrate the flow rate gauge annually, or more frequently if required by manufacturing specifications, and maintain a written record of the calibration and any action resulting from the calibration.	Minn. R. 7007.0800, subp. 2 and subp. 14

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **CE 005 Fabric Filter - Low Temperature, i.e., T<180 Degrees F**

Associated Items: EU 002 Grain Cleaning

EU 003 Hammermill #1

EU 032 Hammermill #2

EU 033 Hammermill #3

EU 034 Hammermill #4

EU 041 Grain Conveyor

EU 056 Specialty Grain Pit

What to do	Why to do it
OPERATING REQUIREMENTS (see SV016 for additional requirements)	hdr
Total Particulate Matter: greater than or equal to 99 percent control efficiency . This corresponds to a Total Particulate Matter limit of 2.30 lb/hr based on AP-42 emission factors and maximum capacity of the equipment subject to this limit. This limit applies to the emissions from EU002, EU003, EU032, EU033, EU034, and EU041 collectively.	Title I Condition: 40 CFR Section 52.21 (j): BACT and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 10 micron: greater than or equal to 99 percent control efficiency . This corresponds to a PM < 10 micron limit of 0.59 lb/hr based on AP-42 emission factors and maximum capacity of the equipment subject to this limit. This limit applies to the emissions from EU002, EU003, EU032, EU033, EU034, and EU041 collectively.	Title I Condition: 40 CFR Section 52.21 (j): BACT and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Total Particulate Matter: greater than or equal to 50 percent capture efficiency of exhaust from EU056. Operate and maintain the control equipment and hoods so that 80 percent of the exhaust from EU056 is captured and routed to CE005.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 10 micron: greater than or equal to 50 percent capture efficiency of exhaust from EU056. Operate and maintain the control equipment and hoods so that 80 percent of the exhaust from EU056 is captured and routed to CE005.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 2.5 micron: greater than or equal to 50 percent capture efficiency of exhaust from EU056. Operate and maintain the control equipment and hoods so that 80 percent of the exhaust from EU056 is captured and routed to CE005.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Opacity: less than or equal to 10 percent discharged from control equipment.	Minn. R. 7011.1005, subp. 3(D)
OPERATION, RECORDKEEPING, AND MAINTENANCE	hdr
Pressure Drop: greater than or equal to 1 inches of water column and less than or equal to 6 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change. The Permittee shall record the pressure drop once every 24 hours when in operation.	Title I Condition: 40 CFR Section 52.21 (j): BACT and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Daily Recordkeeping of Pressure Drop. Each day, the Permittee shall read and record the pressure drop; record the time and date of each pressure drop reading; and record whether or not the pressure drop was within the range specified in this permit.	Title I Condition: 40 CFR Section 52.21 (j): BACT and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5
The Permittee shall operate and maintain the fabric filter at all times that any emission unit controlled by the fabric filter is in operation. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: 40 CFR Section 52.21 (j): BACT and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
Initial Hood Certification and Evaluation: The control device hood must conform to the requirements listed in Minn. R. 7011.0072, subp. 2(B), and the Permittee shall certify this as specified in Minn. R. 7011.0072, subps. 2 and 3. The Permittee shall maintain a copy of the evaluation and certification on site. This applies to emissions from EU056 that are exhausted to CE005.	Minn. R. 7007.0800, subps. 4, 5 and 14
Annual Hood Evaluation: The Permittee shall measure and record at least once every 12 months the fan rotation speed, fan power draw, or face velocity of each hood, or other comparable air flow indication method. The Permittee shall maintain a copy of the annual evaluation on site. This applies to the emissions from EU056 that are exhausted to CE005.	Minn. R. 7007.0800, subps. 4, 5 and 14

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation.	Minn. R. 7011.0075, subp. 3
Periodic Inspections: At least once per calendar quarter, or more frequently if required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14
The Permittee shall maintain each piece of control equipment according to the manufacturer's specification, shall conduct inspections, and maintain documentation of those actions as required by Minn. R. 7011.0075, subp. 2(A) to 2(I).	Minn. R. 7011.0075, subp. 2
The Permittee shall operate and maintain the fabric filter in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	Minn. R. 7007.0800, subp. 14

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **CE 006 Wet Scrubber - High Efficiency**

Associated Items: EU 004 Liquification Tank

EU 006 Whole Stillage Surge Tank

EU 007 Thin Stillage Surge Tank

EU 008 Process Condensate Storage Tank

EU 009 Fermentation Tank #1

EU 010 Fermentation Tank #2

EU 011 Slurry Mix Tank

EU 012 Fermentation Tank #3

EU 013 Fermentation Tank #4

EU 019 Yeast Tank

EU 027 Fermentation Tank #5

EU 028 Yeast Propagation Tank

EU 035 Fermentation Tank #6

EU 036 Fermentation Tank #7

EU 037 Fermentation Tank #8

EU 038 Beerwell

EU 055 Fermentation Tank #9

What to do	Why to do it
OPERATING REQUIREMENTS	hdr
Volatile Organic Compounds: greater than or equal to 95 percent control efficiency or less than 20 ppm VOC as total mass of VOC if the inlet concentration is below 200 ppm VOC as total mass of VOC.	Title I Condition: 40 CFR Section 52.21(j): BACT and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
The Permittee shall operate the control equipment (CE006) any time that any process equipment controlled by CE006 is in operation. The Permittee shall document periods of non-operation of the control equipment.	Title I Condiition: 40 CFR Section 52.21(j): BACT and Minn.R. 7007.3000; Minn. R. 7007.0800, subp. 2
OPERATION, RECORDKEEPING, AND MAINTENANCE	hdr
Liquid Flow Rate: greater than or equal to 34.2 gallons/minute of water, unless a new minimum is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new minimum shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The new minimum is final upon issuance of a permit amendment incorporating the change. The Permittee shall record the liquid flowrate once every 24 hours when in operation.	Title I Condition: 40 CFR Section 52.21(j): BACT and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Process Throughput: less than or equal to 680 gallons/minute using 24-hour Block Average of beer.	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Record liquid flow rate once each day of operation	Title I Condition: 40 CFR Section 52.21(j): BACT and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5
The Permittee shall measure and record beer feed rate once per hour, and compute and record the 24-hour block average feed rate.	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5
The Permittee shall operate and maintain the scrubber at all times that any emission unit controlled by the scrubber is in operation. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: 40 CFR Section 52.21(j): BACT and Minn. R. 7007.3000; Minn. R. 7007.0800, subps 2 and 14
Corrective Action: If the flow rate is not within the range of values specified herein, the Permittee shall take corrective action as soon as possible to return the flow rate to within the required operating values. The Permittee shall keep a record of the type and date of all corrective actions taken.	Minn. R. 7007.0200
Inspect quarterly, or more frequently if required by manufacturing specifications, all components that are not subject to wear or plugging, including structural components, housing, ducts, and hoods. Maintain a written record of the inspection and any action resulting from the inspection.	Minn. R. 7007.0800, subp. 2 and subp. 14
Calibrate the flow rate gauge annually, or more frequently if required by manufacturing specifications, and maintain a written record of the calibration and any action resulting from the calibration.	Minn. R. 7007.0800, subp. 2 and subp. 14

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

TESTING REQUIREMENTS	hdr
Performance Test: due before end of each calendar 36 months starting 04/28/2009 to measure Volatile Organic Compounds emissions and control efficiency of CE006.	Minn. R. 7017.2020, subp. 1

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **CE 010 Regenerative Thermal Oxidizer**

Associated Items: EU 014 Dryer

EU 025 Ethanol Loadout

EU 039 Dryer #2

EU 047 Regenerative Thermal Oxidizer (SV024)

GP 001 NOx Emissions from Fuel Combustion

GP 007 DDGS Dryers

What to do	Why to do it
POLLUTION CONTROL REQUIREMENTS (see GP001, GP007 and EU025 for additional requirements)	hdr
Volatile Organic Compounds: greater than or equal to 95 percent control efficiency measured as total mass of VOC, or less than or equal to 20 ppm if the inlet concentration is below 200 ppm.	Title I Condition: 40 CFR Section 52.21(j): BACT and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Carbon Monoxide: greater than or equal to 90 percent control efficiency or less than or equal to 100 ppm of CO.	Title I Condition: 40 CFR Section 52.21(j): BACT and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
OPERATING REQUIREMENTS	hdr
Temperature: greater than or equal to 1585 degrees F using 3-hour Rolling Average at the Combustion Chamber, unless a new minimum is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new minimum shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The new minimum is final upon issuance of a permit amendment incorporating the change. If the temperature is below the minimum temperature limit, the VOC used during that time shall be considered uncontrolled until the temperature is above the minimum temperature limit. This shall be reported as a deviation.	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 14
Thermal Oxidizer (CE 010) Burnouts and Other Maintenance Activities: During thermal oxidizer malfunctions and any other maintenance for which the manufacturer recommends dryer emissions bypass the thermal oxidizer, the dryer shall be shutdown. Wet DDGS shall be stored and handled to minimize VOC emissions and odors during these maintenance activities. The Permittee shall maintain a record of such maintenance activities in the O & M plan for CE 010.	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000
Thermal Oxidizer Breakdown: In the event of a breakdown of the thermal oxidizer, the Permittee shall stop feed into the dryer as soon as the breakdown is discovered. Dryer operation may continue as long as necessary to empty the dryer. The Permittee shall also submit the notification required by Minn. R. 7019.1000, subp. 2, if required.	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000
Wet cake storage limitation: When wet cake by-product is produced, it will be stored for no longer than 72 hours on-site unless the outside temperature is less than 55 degrees (daily maximum). In all cases, the wet cake will be removed from the facility property as soon as possible. Maintain daily records of wetcake storage, including quantity of wetcake stored, ambient temperature, and duration of wetcake storage.	Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the thermal oxidizer any time that any process equipment controlled by the thermal oxidizer is in operation. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14
MONITORING AND RECORDKEEPING REQUIREMENTS	hdr
The Permittee shall maintain a continuous hard copy readout or computer disk file of the temperature readings and calculated three hour rolling average temperatures for the combustion chamber.	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4
Daily Monitoring: The Permittee shall physically verify the operation of the temperature recording device at least once each operating day to verify that it is working and recording properly. The Permittee shall maintain a written record of the daily verifications.	Minn. R. 7007.0800, subp. 4 and 5
Monitoring Equipment: The Permittee shall install and maintain thermocouples to conduct temperature monitoring required by this permit. The monitoring equipment must be installed, in use, and properly maintained whenever operation of the monitored control equipment is required.	Minn. R. 7007.0800, subp. 4

The Permittee shall maintain and operate a thermocouple monitoring device that continuously indicates and records the combustion chamber temperature of the thermal oxidizer. The monitoring device shall have a margin of error less than the greater of +/- 0.75 percent of the temperature being measured or +/- 2.5 degrees Celsius. The recording device shall also calculate the three-hour rolling average combustion chamber temperature.	Minn. R. 7007.0800, subp. 4 and 5
Corrective Actions: If the temperature is below the minimum specified by this permit or if the thermal oxidizer or any of its components are found during the inspections to need repair, the Permittee shall take corrective action as soon as possible. Corrective actions shall return the temperature to at least the permitted minimum and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the thermal oxidizer. The Permittee shall keep a record of the type and date of any corrective action taken.	Minn. R. 7007.0800, subp. 4, 5, and 14
Quarterly Inspections: At least once per calendar quarter, the Permittee shall inspect the control equipment internal and external system components, including but not limited to the refractory, heat exchanger, and electrical systems. The Permittee shall maintain a written record of the inspection and any corrective actions taken resulting from the inspection.	Minn. R. 7007.0800, subp. 4, 5, and 14
Annual Calibration: The Permittee shall calibrate the temperature monitor at least annually and shall maintain a written record of the calibration and any action resulting from the calibration.	Minn. R. 7007.0800, subp. 4, 5, and 14
For periods when the thermal oxidizer is operated above the minimum combustion chamber temperature, the Permittee shall use either one of the following when completing calculations as required elsewhere in this permit: a. The overall control efficiency limit specified in this permit for this equipment (95%); or b. The overall control efficiency determined during the most recent MPCA approved performance test. If the tested efficiency is less than the efficiency limit in this permit, the Permittee must use the tested value in all calculations until the efficiency is demonstrated to be above the permit limit through a new test.	Minn. R. 7007.0800, subp. 4 and 5
The Permittee shall operate and maintain the thermal oxidizer in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	Minn. R. 7007.0800, subp. 14
TESTING REQUIREMENTS	hdr
Performance Test: due before end of each calendar 60 months starting 04/28/2009 to measure Volatile Organic Compounds emissions and the control efficiency of CE010.	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 07/26/2005 for Carbon Monoxide emissions and and the control efficiency of CE010.	Title I Condition: 40 CFR Section 52.21(j) BACT; Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **CE 011 Fabric Filter - Low Temperature, i.e., T<180 Degrees F**

Associated Items: EU 048 Wood Receiving (SV026)

GP 008 Gasification Emissions Increase

What to do	Why to do it
OPERATING REQUIREMENTS	hdr
Total Particulate Matter: greater than or equal to 99.0 percent control efficiency . The Permittee shall operate and maintain the control equipment such that it achieves a control efficiency of 99.0 percent or greater for PM.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
PM < 10 micron: greater than or equal to 99.0 percent control efficiency The Permittee shall operate and maintain the control equipment such that it achieves a control efficiency of 99.0 percent or greater for PM10.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
OPERATION, RECORDKEEPING, AND MAINTENANCE	hdr
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 8.0 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change. The Permittee shall record the pressure drop once every 24 hours when in operation.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Daily Recordkeeping of Pressure Drop. Each day, the Permittee shall read and record the pressure drop; record the time and date of each pressure drop reading; and record whether or not the pressure drop was within the range specified in this permit.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain the fabric filter at all times that any emission unit controlled by the fabric filter is in operation. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain the fabric filter in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	Minn. R. 7007.0800, subp. 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation.	Minn. R. 7007.0800, subp. 4
Periodic Inspections: At least once per calendar quarter, or more frequently if required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **CE 012 Fabric Filter - Low Temperature, i.e., T<180 Degrees F**

Associated Items: EU 049 Wood Feed (SV027)

GP 008 Gasification Emissions Increase

What to do	Why to do it
OPERATING REQUIREMENTS	hdr
Total Particulate Matter: greater than or equal to 99.0 percent control efficiency . The Permittee shall operate and maintain the control equipment such that it achieves a control efficiency of 99.0 percent or greater for PM.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
PM < 10 micron: greater than or equal to 99.0 percent control efficiency The Permittee shall operate and maintain the control equipment such that it achieves a control efficiency of 99.0 percent or greater for PM10.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Pressure Drop: greater than or equal to 0.2 inches of water column and less than or equal to 8.0 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change. The Permittee shall record the pressure drop once every 24 hours when in operation.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
RECORDKEEPING AND MONITORING REQUIREMENTS	hdr
Daily Recordkeeping of Pressure Drop. Each day, the Permittee shall read and record the pressure drop; record the time and date of each pressure drop reading; and record whether or not the pressure drop was within the range specified in this permit.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain the fabric filter at all times that any emission unit controlled by the fabric filter is in operation. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain the fabric filter in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	Minn. R. 7007.0800, subp. 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation.	Minn. R. 7007.0800, subp. 4
Periodic Inspections: At least once per calendar quarter, or more frequently if required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **CE 013 Fabric Filter - Medium Temperature i.e., 180 F<T<250 F**

Associated Items: EU 051 Ash Handling (SV028)

GP 008 Gasification Emissions Increase

What to do	Why to do it
OPERATING REQUIREMENTS	hdr
Total Particulate Matter: greater than or equal to 99.0 percent control efficiency . The Permittee shall operate and maintain the control equipment such that it achieves a control efficiency of 99.0 percent or greater for PM.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
PM < 10 micron: greater than or equal to 99.0 percent control efficiency The Permittee shall operate and maintain the control equipment such that it achieves a control efficiency of 99.0 percent or greater for PM10.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall not operate ash handling equipment without the water spray.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
RECORDKEEPING AND MONITORING REQUIREMENTS	hdr
Visible Emissions: The Permittee shall check the fabric filter stack (SV 028) for any visible emissions once each day of operation during daylight hours.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Recordkeeping of Visible Emissions: The Permittee shall record the time and date of each visible emissions inspection, and whether or not any visible emissions were observed.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain the fabric filter at all times that any emission unit controlled by the fabric filter is in operation. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain the fabric filter in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	Minn. R. 7007.0800, subp. 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation.	Minn. R. 7007.0800, subp. 4
Periodic Inspections: At least once per calendar quarter, or more frequently if required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14
PERFORMANCE TESTING	hdr
Performance Test: due before end of each calendar 60 months starting 08/05/2008 to measure PM emissions from the gasifier (EU050) .	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each calendar 60 months starting 08/05/2008 to measure PM10 emissions from the gasifier (EU050) .	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **CE 014 Flaring**

Associated Items: EU 050 Gasifier

GP 008 Gasification Emissions Increase

What to do	Why to do it
OPERATING, RECORDKEEPING AND MONITORING REQUIREMENTS	hdr
The Permittee shall operate and maintain the flare (CE014) at all times that any process equipment controlled by the flare is in operation (during startup, transition mode, and shutdown of the gasifier (EU050)).	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall install, operate, and record data from either a thermocouple or flame sensor system for the flare pilot light. Whenever operation of the flare is required by the startup procedure, the Permittee shall record that the flare is in operation for the required time periods. This may be accomplished by automatic data logging based on the thermocouple/flame sensor indication that the flare is in operation.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain the flare in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M plan available on site for use by staff and MPCA staff.	Minn. R. 7007.0800, subp. 14
Monitoring Equipment: The Permittee shall install and maintain thermocouples to monitor the presence of a pilot flame. The monitoring equipment must be installed, in use, and properly maintained whenever operation of the monitored control equipment is required.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn R. 7007.3000; Minn. R. 7007.0800, subp. 4
Quarterly Inspections: At least once per calendar quarter, the Permittee shall inspect the control equipment internal and external system components, including but not limited to the refractory and electrical systems. The Permittee shall maintain a written record of the inspection and any corrective actions taken resulting from the inspection.	Minn. R. 7007.0800, subps. 4, 5, and 14
Corrective Actions: If a pilot flame is not present or if the flare or any of its components are found during the inspections to need repair, the Permittee shall take corrective action as soon as possible. Corrective action shall result in return to operation of the pilot flame and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the flare. The Permittee shall keep a record of the type and date of any corrective action taken.	Minn. R. 7007.0800, subps. 4, 5, and 14

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **CE 015 Multiple Cyclone w/o Fly Ash Reinjection - Most Multiclones**

Associated Items: EU 040 Boiler # 3

EU 050 Gasifier

GP 001 NOx Emissions from Fuel Combustion

GP 008 Gasification Emissions Increase

What to do	Why to do it
OPERATING REQUIREMENTS	hdr
Total Particulate Matter: greater than or equal to 80 percent control efficiency	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14
PM < 10 micron: greater than or equal to 80 percent control efficiency	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 8.0 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change. The Permittee shall record the pressure drop once every 24 hours when in operation.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14
RECORDKEEPING AND MONITORING REQUIREMENTS	hdr
Daily Recordkeeping of Pressure Drop. Each day, the Permittee shall read and record the pressure drop; record the time and date of each pressure drop reading; and record whether or not the pressure drop was within the range specified in this permit.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 and 5
The Permittee shall operate and maintain the cyclone at all times that any emission unit controlled by the cyclone is in operation. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the required operating range; or - the cyclone or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for the cyclone.	Minn. R. 7007.0800, subp. 4, 5, and 14
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored cyclone is in operation.	Minn. R. 7007.0800, subp. 4
Periodic Inspections: At least once per calendar quarter, or more frequently if required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14
The Permittee shall operate and maintain the cyclone in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	Minn. R. 7007.0800, subp. 14

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **CE 016 Fabric Filter - Low Temperature, i.e., T<180 Degrees F**

Associated Items: EU 040 Boiler # 3

EU 050 Gasifier

GP 001 NOx Emissions from Fuel Combustion

GP 008 Gasification Emissions Increase

What to do	Why to do it
OPERATING REQUIREMENTS	hdr
Total Particulate Matter: greater than or equal to 99.0 percent control efficiency . The Permittee shall operate and maintain the control equipment such that it achieves a control efficiency of 99.0 percent or greater for PM.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14
PM < 10 micron: greater than or equal to 99.0 percent control efficiency The Permittee shall operate and maintain the control equipment such that it achieves a control efficiency of 99.0 percent or greater for PM10.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14
Total Particulate Matter: less than or equal to 0.003 grains/dry standard cubic foot	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
PM < 10 micron: less than or equal to 0.003 grains/dry standard cubic foot	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Pressure Drop: greater than or equal to 2 inches of water column and less than or equal to 12 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change. The Permittee shall record the pressure drop once every 24 hours when in operation.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14; Minn. R. 7017.2025, subp. 3
RECORDKEEPING AND MONITORING REQUIREMENTS	hdr
Daily Recordkeeping of Pressure Drop. Each day, the Permittee shall read and record the pressure drop; record the time and date of each pressure drop reading; and record whether or not the pressure drop was within the range specified in this permit.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 and 5
The Permittee shall operate and maintain the fabric filter at all times that any emission unit controlled by the fabric filter is in operation. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: To avoid classification as a major modification under 40 CFR 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14
The Permittee shall operate and maintain the fabric filter in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	Minn. R. 7007.0800, subp. 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation.	Minn. R. 7007.0800, subp. 4
Periodic Inspections: At least once per calendar quarter, or more frequently if required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **CE 017 Fabric Filter - Low Temperature, i.e., T<180 Degrees F**

Associated Items: EU 053 Briquette Bulkbag, Blender and Conveyor

EU 054 Briquette Cooler

GP 008 Gasification Emissions Increase

What to do	Why to do it
OPERATIONAL REQUIREMENTS	hdr
Pressure drop: The Permittee shall maintain the pressure differential according to the manufacturer's specifications. Upon start-up of the fabric filter (CE017) and the units controlled by CE017, the Permittee shall monitor and record the pressure drop at least once each operating day, or on a four-hour block average basis if continuous monitoring instrumentation is installed. Once the pressure drop range has been established it becomes an enforceable part of this permit. A deviation from the established range shall trigger a corrective action as detailed in the O & M plan.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4; Minn. R. 7007.0800, subps. 14 and 16(J)
Visible Emissions: The Permittee shall check the fabric filter stack (SV030 and SV031) for any visible emissions once each day of operation during daylight hours. During inclement weather, the Permittee shall read and record the pressure drop across the fabric filter, once each day of operation.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5
MONITORING AND RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping of Visible Emissions and Pressure Drop. The Permittee shall record the time and date of each visible emission inspection and pressure drop reading, and whether or not any visible emissions were observed, and whether or not the observed pressure drop was within the range specified in this permit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5
The Permittee shall operate and maintain the fabric filter at all times that any emission unit controlled by the fabric filter is in operation. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subps. 4, 5 and 14
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation.	Minn. R. 7007.0800, subp. 4
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subps. 4, 5 and 14

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **CE 020 Fabric Filter - Low Temperature, i.e., T<180 Degrees F**

Associated Items: EU 057 Truck Receiving Dump Pit 1

EU 058 Receiving Conveyor 1

EU 059 Receiving Conveyor 2

EU 060 Elevator 1

EU 061 Transfer Conveyor 1

EU 062 Transfer Conveyor 2

EU 063 Silo 1

EU 064 Silo 2

EU 065 Silo Reclaim Conveyor 1

EU 066 Silo Reclaim Conveyor 2

EU 067 Reclaim Elevator

EU 079 Transfer Conveyor

GP 010 Grain Receiving, Transfer and Storage

What to do	Why to do it
OPERATIONAL REQUIREMENTS	hdr
Total Particulate Matter: greater than or equal to 97 percent control efficiency	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 10 micron: greater than or equal to 95 percent control efficiency	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 2.5 micron: greater than or equal to 70 percent control efficiency	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Pressure drop: The Permittee shall maintain the pressure differential according to the manufacturer's specifications. Upon start-up of the fabric filter (CE020) and the units controlled by CE020, the Permittee shall monitor and record the pressure drop at least once each operating day, or on a four-hour block average basis if continuous monitoring instrumentation is installed. Once the pressure drop range has been established it becomes an enforceable part of this permit. A deviation from the established range shall trigger a corrective action as detailed in the O & M plan.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4; Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
The Permittee shall operate and maintain the fabric filter (CE020) at all times that any emission unit controlled by the fabric filter is in operation. The Permittee shall document periods of non-operation of the control equipment.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
Visible Emissions: The Permittee shall check the fabric filter stack (SV 032) for any visible emissions once each day of operation during daylight hours. During inclement weather, the Permittee shall read and record the pressure drop across the fabric filter, once each day of operation.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5
MONITORING AND RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping of Visible Emissions and Pressure Drop. The Permittee shall record the time and date of each visible emission inspection and pressure drop reading, and whether or not any visible emissions were observed, and whether or not the observed pressure drop was within the range specified in this permit	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5
The Permittee shall operate and maintain the fabric filter at all times that any emission unit controlled by the fabric filter is in operation. The Permittee shall document periods of non-operation of the control equipment.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subps. 4, 5, and 14
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation.	Minn. R. 7007.0800, subp. 4
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subps. 4, 5 and 14

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **CE 021 Fabric Filter - Low Temperature, i.e., T<180 Degrees F**

Associated Items: EU 068 Truck Receiving Dump Pit 2

EU 069 Receiving Conveyor 3

EU 070 Receiving Conveyor 4

EU 071 Elevator 2

EU 072 Transfer Conveyor 3

EU 073 Transfer Conveyor 4

EU 074 Silo 3

EU 075 Silo 4

EU 076 Silo Reclaim Conveyor 3

EU 077 Silo Reclaim Conveyor 4

EU 078 Silo Reclaim Conveyor 5

GP 010 Grain Receiving, Transfer and Storage

What to do	Why to do it
OPERATIONAL REQUIREMENTS	hdr
Total Particulate Matter: greater than or equal to 97 percent control efficiency	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 10 micron: greater than or equal to 94 percent control efficiency	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
PM < 2.5 micron: greater than or equal to 66 percent control efficiency	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Pressure drop: The Permittee shall maintain the pressure differential according to the manufacturer's specifications. Upon start-up of the fabric filter (CE021) and the units controlled by CE021, the Permittee shall monitor and record the pressure drop at least once each operating day, or on a four-hour block average basis if continuous monitoring instrumentation is installed. Once the pressure drop range has been established it becomes an enforceable part of this permit. A deviation from the established range shall trigger a corrective action as detailed in the O & M plan.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4; Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
The Permittee shall operate and maintain the fabric filter (CE021) at all times that any emission unit controlled by the fabric filter is in operation. The Permittee shall document periods of non-operation of the control equipment.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
Visible Emissions: The Permittee shall check the fabric filter stack (SV 033) for any visible emissions once each day of operation during daylight hours. During inclement weather, the Permittee shall read and record the pressure drop across the fabric filter, once each day of operation.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5
MONITORING AND RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping of Visible Emissions and Pressure Drop. The Permittee shall record the time and date of each visible emission inspection and pressure drop reading, and whether or not any visible emissions were observed, and whether or not the observed pressure drop was within the range specified in this permit	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5
The Permittee shall operate and maintain the fabric filter at all times that any emission unit controlled by the fabric filter is in operation. The Permittee shall document periods of non-operation of the control equipment.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subps. 4, 5, and 14
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation.	Minn. R. 7007.0800, subp. 4
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subps. 4, 5 and 14

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **TK 002 Gasoline**

Associated Items: GP 013 Facility Wide HAPs Limits

What to do	Why to do it
The facility shall equip the storage vessel (TK002) with a permanent submerged fill pipe.	Minn. R. 7011.1505 subp. 3(B)

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **FS 004 Valve, Flange, and Seal Fugitive Emissions**

Associated Items: GP 013 Facility Wide HAPs Limits

What to do	Why to do it
STANDARDS: PUMPS	hdr
Pumps in light liquid service: (a)(1) Each pump in light liquid service shall be monitored monthly to detect leaks by the methods specified in 40 CFR Section 60.485(b), except as provided in 40 CFR Section 60.482-1(c) and (f) and 40 CFR Section 60.482-2(d), (e), and (f). A pump that begins operation in light liquid service after the initial startup date for the process unit must be monitored for the first time within 30 days after the end of its startup period, except for a pump that replaces a leaking pump and except as provided in 40 CFR Section 60.482-1(c) and (f) and 40 CFR Section 60.482-2(d), (e), and (f). (2) Each pump in light liquid service shall be checked by visual inspection each calendar week for indications of liquids dripping from the seal, except as provided in 40 CFR Section 60.482-1(f).	40 CFR Section 60.482-2(b) and (c); Minn. R. 7011.2900
(b)(1) If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. (2) If there are indications of liquids dripping from the pump seal, the owner or operator shall follow the procedure specified in either 40 CFR Section 60.482-2 (b)(2)(i) or (ii). This requirement does not apply to a pump that was monitored after a previous weekly inspection if the instrument reading for that monitoring event was less than 10,000 ppm and the pump was not repaired since that monitoring event. (i) Monitor the pump within 5 days as specified in 40 CFR Section 60.485(b). If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. The leak shall be repaired using the procedures in 40 CFR Section 60.482-2(c). (ii) designate the visual indications of liquids dripping as a leak, and repair the leak within, 15 days of detection by eliminating the visual indications of liquids dripping.	40 CFR Section 60.482-2(b) and (c); Minn. R. 7011.2900
STANDARDS: COMPRESSORS	hdr
(a) Each compressor shall be equipped with a seal system that includes a barrier fluid system and that prevents leakage of VOC to the atmosphere, except as provided in 40 CFR Section 60.482-1(c) and 40 CFR Section 60.482-3(h), (i) and (j).	40 CFR Section 60.482-3(a); Minn. R. 7011.2900
(b) Each compressor seal system shall be: (1) Operated with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or (2) Equipped with a barrier fluid system that is connected by a closed vent system to a control device that complies with the requirements of 40 CFR Section 60.482-10; or (3) Equipped with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere.	40 CFR Section 60.482-3(b); Minn. R. 7011.2900
(c) The barrier fluid system shall be in heavy liquid service or shall not be in VOC service. (d) Each barrier fluid system shall be equipped with a sensor that will detect failure of the seal system, barrier fluid system, or both.	40 CFR Section 60.482-3(c) and (d); Minn. R. 7011.2900
(e)(1) Each sensor shall be checked daily or shall be equipped with an audible alarm. (2) The owner or operator shall determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both.	40 CFR Section 60.482-3(e); Minn. R. 7011.2900
(f) If the sensor indicates failure of the seal system, the barrier system, or both based on the criterion determined under paragraph (e)(2), a leak is detected.	40 CFR Section 60.482-3(f); Minn. R. 7011.2900

(g)(1) When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected except as provided in 40 CFR Section 60.482-9 (Delay of Repair). (2) A first attempt at repair shall be made no later than 15 calendar days after it is detected, except as provided in 40 CFR Section 60.482-9.	40 CFR Section 60.482-3(g); Minn. R. 7011.2900
STANDARDS: PRESSURE RELIEF DEVICES IN GAS/VAPOR SERVICE	hdr
(a) Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background as determined by the methods specified in 40 CFR Section 60.485(c).	40 CFR Section 60.482-4(a); Minn. R. 7011.2900
(b)(1) After each pressure release, the pressure relief device shall be returned to a condition of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after the pressure release, except as provided in 40 CFR Section 60.482-9 (Delay of Repair).	40 CFR Section 60.482-4(b); Minn. R. 7011.2900
STANDARDS: SAMPLING CONNECTION SYSTEMS	hdr
(a) Each sampling connection system shall be equipped with a closed-purged, closed-loop, or closed-vent system, except as provided in 40 CFR Section 60.482-1(c).	40 CFR Section 60.482-5(a); Minn. R. 7011.2900
(b) Each closed-purge, closed-loop, or closed-vent system shall: (1) Return the purged process fluid directly to the process line; or (2) Collect and recycle the purged process fluid to a process; or (3) Be designed and operated to capture and transport all the purged process fluid to a control device that complies with the requirements of 40 CFR Section 60.482-10. (c) In situ sampling systems are exempt from these requirements.	40 CFR Section 60.482-5(b) and (c); Minn. R. 7011.2900
STANDARDS: OPEN ENDED VALVES OR LINES	hdr
(a)(1) Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR Section 60.482-1(c) and 40 CFR Section 60.482-6(d) and (e). (2) The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line.	40 CFR Section 60.482-6(a); Minn. R. 7011.2900
(b) Each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed. (c) When a double block and bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves but shall comply with paragraph (a) at all other times.	40 CFR Section 60.482-6(b) and (c); Minn. R. 7011.2900
STANDARDS: VALVES	hdr
(a) Each valve shall be monitored monthly to detect leaks by the methods specified in 40 CFR Section 60.485(b).	40 CFR Section 60.482-7(a); Minn. R. 7011.2900
(b) If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. (c)(1) Any valve for which a leak is not detected for 2 successive months may be monitored the first month of every quarter, beginning with the next quarter, until a leak is detected. (2) If a leak is detected, the valve shall be monitored monthly until a leak is not detected for 2 successive months.	40 CFR Section 60.482-7(b) and (c); Minn. R. 7011.2900
(d)(1) When a leak is detected, it shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected, except as provided in 40 CFR Section 60.482-9. (2) A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.	40 CFR Section 60.482-7(d); Minn. R. 7011.2900

(e) First attempts at repair include, but are not limited to, the following best practices where practicable: (1) Tightening of bonnet bolts; (2) Replacement of bonnet bolts; (3) Tightening of packing gland nuts; (4) Injection of lubricant into lubricated packing.	40 CFR Section 60.482-7(e); Minn. R. 7011.2900
STANDARDS: PUMPS AND VALVES IN HEAVY LIQUID SERVICE, PRESSURE RELIEF DEVICES IN LIGHT LIQUID OR HEAVY LIQUID SERVICE, AND FLANGES AND OTHER CONNECTORS	hdr
(a) If evidence of a potential leak is found by visual, audible, olfactory, or any other detection method at pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and connectors, the owner or operator shall follow either one of the following procedures: (1) The owner or operator shall monitor the equipment within 5 days by the method specified in 40 CFR Section 60.485(b) and shall comply with the requirements of 40 CFR Section 60.482-8(b) through (d). (2) The owner or operator shall eliminate the visual, audible, olfactory, or other indication of a potential leak within 5 calendar days of detection.	40 CFR Section 60.482-8(a); Minn. R. 7011.2900
(b) If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. (c)(1) When a leak is detected, it shall be repaired as soon as practical, but not later than 15 calendar days after it is detected, except as provided in 40 CFR Section 60.482-9 (delay of repair). (2) The first attempt at repair shall be made no later than 5 calendar days after each leak is detected.	40 CFR Section 60.482-8(b) and (c); Minn. R. 7011.2900
(d) First attempts at repair include, but are not limited to, the best practices described under 40 CFR Section 60.482-2(c)(2) and 40 CFR Section 60.482-7(e)	40 CFR Section 60.482-8(d); Minn. R. 7011.2900
DELAY OF REPAIR	hdr
(a) Delay of repair of equipment for which leaks have been detected will be allowed if repair within 15 days is technically infeasible without a process unit shutdown. Repair of this equipment shall occur before the end of the next process unit shutdown. Monitoring to verify repair must occur within 15 days after startup of the process unit. (b) Delay of repair of equipment will be allowed for equipment which is isolated from the process and which does not remain in VOC service.	40 CFR Section 60.482-9(a) and (b); Minn. R. 7011.2900
(c) Delay of repair for valves will be allowed if: (1) The owner or operator demonstrates that emissions of purged material resulting from the immediate repair are greater than the fugitive emissions likely to result from delay of repair, and (2) When repair procedures are effected, the purged material is collected and destroyed or recovered in a control device complying with 40 CFR Section 60.482-10.	40 CFR Section 60.482-9(c); Minn. R. 7011.2900
(d) Delay of repair for pumps will be allowed if: (1) Repair required the use of a dual mechanical seal system that includes a barrier fluid system, and (2) Repair is completed as soon as practicable, but not later than 6 months after the leak was detected.	40 CFR Section 60.482-9(d); Minn. R. 7011.2900
(e) Delay of repair beyond a process unit shutdown will be allowed for a valve, if valve assembly replacement is necessary during the process unit shutdown, valve assembly supplies have been depleted, and valve assembly supplies had been sufficiently stocked before the supplies were depleted. Delay of repair beyond the next process unit shutdown will not be allowed unless the next process unit shutdown occurs sooner than 6 months after the first process unit shutdown.	40 CFR Section 60.482-9(e); Minn. R. 7011.2900
(f) When delay of repair is allowed for a leaking pump or valve that remains in service, the pump or valve may be considered to be repaired and no longer subject to delay of repair requirements if two consecutive monthly monitoring instrument readings are below the leak definition.	40 CFR Section 60.482-9(e); Minn. R. 7011.2900
TESTING PROCEDURES	hdr

Compliance shall be determined by the methods specified in 40 CFR Section 60.485.	40 CFR Section 60.486(b); Minn. R. 7011.2900
RECORDKEEPING	hdr
(b) When each leak is detected, the following requirements apply: (1) A weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment. (2) The identification on a valve may be removed after it has been monitored for 2 successive months as specified in 40 CFR Section 60.482-7(c) and no leak has been detected during those 2 months. (3) The identification on equipment except on a valve, may be removed after it has been repaired.	40 CFR Section 60.486(b); Minn. R. 7011.2900
(c) When each leak is detected the following information shall be recorded in a log and shall be kept for 2 years in a readily accessible location: (1) The instrument and operator identification numbers and the equipment identification number. (2) The date the leak was detected and the dates of each attempt to repair the leak. (3) Repair methods applied in each attempt to repair the leak. (4) Above 10,000 is the maximum instrument reading measured by the methods specified in 40 CFR Section 60.485(a) after each repair attempt is equal to or greater than 10,000 ppm.	40 CFR Section 60.486(c); Minn. R. 7011.2900
(5) Repair delayed and the reason for the delay if a leak is not repaired within 15 calendar days after discover of the leak. (6) The signature of the owner or operator whose decision it was that the repair could not be effected without a process shutdown. (7) The expected date of successful repair of the leak if a leak is not repaired within 15 days. (8) Dates of process unit shutdown that occur while the equipment is unrepaired. (9) The date of successful repair of the leak.	40 CFR Section 60.486(c); Minn. R. 7011.2900
REPORTING REQUIREMENTS	hdr
(a) Each owner or operator subject to the provisions of 40 CFR pt. 60, subp. VV shall submit semiannual reports to the Administrator beginning six months after the initial startup date.	40 CFR Section 60.487(a); Minn. R. 7011.2900
(b) The initial semiannual report to the Administrator shall include the following information: (1) Process unit identification, (2) Number of valves subject to the requirements of 40 CFR Section 60.482-7, (3) Number of pumps subject to the requirements of 40 CFR Section 60.482-2, (4) Number of compressors subject to the requirements of 40 CFR Section 60.482-3	40 CFR Section 60.487(b); Minn. R. 7011.2900
(c) All semiannual reports to the Administrator shall include the following information, summarized from the information in 40 CFR Section 60.486; (1) Process unit identification. (2) For each month during the semiannual reporting period, (i) Number of valves for which leaks were detected as described in 40 CFR Section 60.482(7)(b) or 40 CFR Section 60.483-2 (ii) Number of valves for which leaks were not repaired as required in 40 CFR Section 60.482-7(d)(1), (iii) Number of pumps for which leaks were detected as described in 40 CFR Section 60.482-2(b), (d)(4)(ii)(A) or (B), or (d)(5)(iii), (iv) Number of pumps for which leaks were not repaired as required in 40 CFR Section 60.482-2(c)(1) and (d)(6)(ii).	40 CFR Section 60.487(c); Minn. R. 7011.2900
(v) Number of compressors for which leaks were detected as described in 40 CFR Section Section 60.482-3(f), (vi) Number of compressors for which leaks were not repaired as required in 40 CFR Section Section 60.482-3(g)(1) (vii) The facts that explain each delay of repair and, where appropriate, why a process unit shutdown was technically infeasible.	40 CFR Section 60.487(c); Minn. R. 7011.2900
(3) Dates of process unit shutdowns which occurred within the semiannual reporting period. (4) Revisions to items reported according to paragraph (b) if changes have occurred since the initial report or subsequent revisions to the initial report.	40 CFR Section 60.487(c); Minn. R. 7011.2900

(e) Report the results of all performance tests in accordance with 40 CFR Section 60.8. The provisions of 40 CFR Section 60.8(d) do not apply to affected facilities subject to the provisions of 40 CFR pt. 60, subp. VV except than an owner or operator must notify the Administrator of the schedule for the initial performance tests at least 30 days before the initial performance tests.	40 CFR Section 60.487(e); Minn. R. 7011.2900

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **FS 006 Paved Roads**

Associated Items: GP 008 Gasification Emissions Increase

What to do	Why to do it
The facility shall take reasonable measure to prevent particulate matter from becoming airborne.	Minn. R. 7011.0150; Minn. R. 7007.0800, subp. 2
Weekly Inspection and Recordkeeping : During each week of operation the Permittee shall visually inspect all paved surfaces to minimize or eliminate fugitive emissions. The facility shall maintain a record of this inspection that includes the date of the inspection, whether fugitive dust was observed, what corrective actions were taken, when the corrective actions were taken, and whether the corrective actions eliminated the fugitive dust.	Minn. R. 7011.0150; Minn. R. 7007.0800, subp. 2

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Subject Item: **MR 001 NOx CEMS**

Associated Items: EU 040 Boiler # 3

GP 001 NOx Emissions from Fuel Combustion

GP 008 Gasification Emissions Increase

SV 015 Boiler # 3

What to do	Why to do it
Emissions Monitoring: The owner or operator shall use a NOx CEMS to measure NOx emissions from SV 015, (stack for Boiler # 3, EU 040.)	Minn. R. 7017.1006
Continuous Operation: CEMS must be operated and data recorded during all periods of emission unit operation including periods of emission unit start-up, shutdown, or malfunction except for periods of acceptable monitor downtime. This requirement applies whether or not a numerical emission limit applies during these periods. A CEMS must not be bypassed except in emergencies where failure to bypass would endanger human health, safety, or plant equipment.	Minn. R. 7017.1090
Monitoring Data: All data points collected by a CEMS shall be used to calculate individual hourly emission averages unless another applicable requirement requires more frequent averaging. In order for an hour of data to be considered, it must contain the following minimum number of data points: A. four data points, equally spaced, if the emission unit operated during the entire hour; B. two data points, at least 15 minutes apart, during periods of monitor calibration or routine maintenance; C. one data point if the emission unit operated for 15 minutes or less during the hour.	Minn. R. 7017.1160, subp. 1 and 2
QA Plan: Develop and implement a written quality assurance plan that covers each CEMS. The plan shall be on site and available for inspection within 30 days after monitor certification. The plan shall contain all of the information required by 40 CFR pt. 60, Appendix F, section 3. The plan shall include the manufacturer's spare parts list for each CEMS and require that those parts be kept at the facility unless the Commissioner gives written approval to exclude specific spare parts from the list.	Minn. R. 7017.1170, subp. 2
Requirement: CEMS Daily Calibration Drift (CD) Test: The CD shall be quantified and recorded at zero (low-level) and upscale (high-level) gas concentrations at least once daily according to the procedures listed in Minn. R. 7017.1170, subp. 3 A or B and 40 CFR Section 60.13(d)(1) for each pollutant concentration, each diluent monitor, and for each monitor range. The CEMS shall be adjusted whenever the CD exceeds twice the specification of 40 CFR pt. 60, Appendix B. If no span value is specified in the applicable requirement or in a compliance document, the Permittee shall use a span value equivalent to 1.5 times the emission limit. 40 CFR pt. 60, Appendix F, shall be used to determine out-of-control periods for CEMS. Follow the procedures in 40 CFR pt. 60, Appendix F.	Minn. R. 7017.1170, subp. 3
CEMS Cylinder Gas Audit (CGA): due before end of each calendar half-year starting 10/22/2007, except that a CGA is not required during any calendar half year in which a RATA was performed. The CGAs shall be conducted at least three months apart but no more than eight months apart. A CGA shall be conducted according to the procedures in 40 CFR pt. 60, Appendix F, section 5.1.2. If the monitored emission unit was operated for less than 24 hours during the calendar half year, a CGA is not required for that calendar half year.	Minn. R. 7017.1170, subp. 4
CEMS Relative Accuracy Test Audit (RATA): due before end of each year following CEM Certification Test. A RATA is not required in any calendar year if a RATA conducted in the previous year demonstrated a relative accuracy value of less than 15 percent or if the associated emissions unit operated less than 48 hours during the calendar year. If the exception is used, the next RATA shall be conducted during the first half of the following calendar year. RATAs shall be conducted at least 3 months apart according to 40 CFR pt. 60, Appendix F, section 5.1.1.	Minn. R. 7017.1170, subp. 5
Relative Accuracy Test Audit (RATA) Notification: due 30 days before CEMS Relative Accuracy Test Audit (RATA)	Minn. R. 7017.1180, subp. 2
Relative Accuracy Test Audit (RATA) Results Summary: due 30 days after end of each calendar quarter in which the CEMS RATA was conducted.	Minn. R. 7017.1180, subp. 3
Recordkeeping: The owner or operator must retain records of all CEMS monitoring data and support information for a period of five years from the date of the monitoring sample, measurement or report. Records shall be kept at the source.	Minn. R. 7017.1130

TABLE B: SUBMITTALS

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

Also, where required by an applicable rule or permit condition, send to the Permit Document Coordinator notices of:
- accumulated insignificant activities,
- installation of control equipment,
- replacement of an emissions unit, and
- changes that contravene a permit term.

Send submittals that are required to be submitted to the U.S. EPA regional office to:

Chief Air Enforcement
Air and Radiation Branch
EPA Region V
77 West Jackson Boulevard
Chicago, Illinois 60604

Each submittal must be postmarked or received by the date specified in the applicable Table. Those submittals required by parts 7007.0100 to 7007.1850 must be certified by a responsible official, defined in Minn. R. 7007.0100, subp. 21. Other submittals shall be certified as appropriate if certification is required by an applicable rule or permit condition.

Send submittals that are required by the Acid Rain Program to:

U.S. Environmental Protection Agency
Clean Air Markets Division
1200 Pennsylvania Avenue NW (6204N)
Washington, D.C. 20460

Send any application for a permit or permit amendment to:

Fiscal Services
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

Unless another person is identified in the applicable Table, send all other submittals to:

AQ Compliance Tracking Coordinator
Industrial Division
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

Table B lists most of the submittals required by this permit. Please note that some submittal requirements may appear in Table A or, if applicable, within a compliance schedule located in Table C. Table B is divided into two sections in order to separately list one-time only and recurrent submittal requirements.

TABLE B: ONE TIME SUBMITTALS OR NOTIFICATIONS

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

What to send	When to send	Portion of Facility Affected
Application for Permit Reissuance	due 180 days before expiration of Existing Permit	Total Facility
Notification of compliance status	due 60 days after Initial Performance Test For each initial compliance demonstration that includes performance test results as specified in 40 CFR Section 63.10(d)(2).	EU020, EU021
Notification of the Actual Date of Initial Startup	due 15 days after Initial Startup of each emission unit.	EU057, EU058, EU059, EU060, EU061, EU062, EU063, EU064, EU065, EU066, EU067, EU068, EU069, EU070, EU071, EU072, EU073, EU074, EU075, EU076, EU077, EU078, EU079
Notification of the Date Construction Began	due 30 days after Start Of Construction	EU057, EU058, EU059, EU060, EU061, EU062, EU063, EU064, EU065, EU066, EU067, EU068, EU069, EU070, EU071, EU072, EU073, EU074, EU075, EU076, EU077, EU078, EU079
Notification	due 60 days after Performance Test as required in 40 CFR Section 63.7(b)(1) to allow the Administrator, upon request, to review and approve the site-specific test plan required under paragraph (c) of 40 CFR Section 63.7 and to have an observer present during the test.	EU020, EU021
Notification	due 60 days before Performance Test of CMS Performance Evaluation. This notification is due simultaneously with the Notification of Intent to conduct a performance test.	EU020, EU021
Testing Frequency Plan	due 60 days after Initial Performance Test for PM < 10 micron emissions. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12-month, 36-month, or 60-month intervals, or as applicable, shall be required upon written approval of the MPCA.	EU040, SV032, SV033
Testing Frequency Plan	due 60 days after Initial Performance Test for PM < 2.5 micron emissions. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12-month, 36-month, or 60-month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV029, SV032, SV033
Testing Frequency Plan	due 60 days after Initial Performance Test for Total Particulate Matter emissions. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12-month, 36-month, or 60-month intervals, or as applicable, shall be required upon written approval of the MPCA.	EU040, SV016, SV032, SV033
Testing Frequency Plan	due 60 days after Performance Test for PM < 2.5 micron emissions. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12-month, 36-month, or 60-month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV026, SV027
Testing Frequency Plan	due 60 days after Performance Test for PM <2.5 micron emissions. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on 12-month, 36-month, or 60-month intervals, or as applicable, shall be required upon written approval of the MPCA.	SV030, SV031

TABLE B: RECURRENT SUBMITTALS

Facility Name: Chippewa Valley Ethanol Co LLLP

Permit Number: 15100026 - 012

What to send	When to send	Portion of Facility Affected
Cylinder Gas Audit (CGA) Results Summary	due 30 days after end of each calendar quarter following end of the calendar quarter in which the Audit was performed	MR001
Excess Emissions/Downtime Reports (EER's)	due 30 days after end of each calendar quarter following Initial Startup of the Monitor. Submit Deviations Reporting Form DRF-1 as amended. The EER shall indicate all periods of monitor bypass and all periods of exceedances of the limit including exceedances allowed by an applicable standard, i.e. during startup, shutdown, and malfunctions. The EER must be submitted even if there were no excess emissions, downtime or bypasses during the quarter.	MR001
Semiannual Compliance Report	due 31 days after end of each calendar half-year starting 05/03/2013 The Report shall cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Each subsequent Compliance report shall be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.	EU020, EU021
Semiannual Deviations Report	due 30 days after end of each calendar half-year starting 07/07/1998 The first semiannual report submitted by the Permittee shall cover the calendar half-year in which the permit is issued. The first report of each calendar year covers January 1 - June 30. The second report of each calendar year covers July 1 - December 31.	Total Facility
Compliance Certification	due 30 days after end of each calendar year following Permit Issuance (for the previous calendar year). The Permittee shall submit this on a form approved by the Commissioner, both to the Commissioner and to the US EPA regional office in Chicago. This report covers all deviations experienced during the calendar year.	Total Facility

Appendix I: Stack Modeled Parameters

Table 1: Chippewa Valley Ethanol Company Point Source Model Parameters: PM_{10}

Stack ID	Source Description	Modeled Parameters										Location UTM NAD83	
		Base Elevation (m)	Stack Height (m)	Stack Diameter (m)	Exit Velocity (m/s)	Stack Exit Temp. (K)	Release Type	24-hr Emission Rate (g/s)	Annual Emission Rate (g/s)	24-hr Emission Rate (lb/hr)	Annual Emission Rate (lb/hr)	Easting (m)	Northing (m)
SV05	Boiler #1	315.83	8.5314	0.7894	18.199608	422	VERTICAL	0.0578	0.0571	0.4590	0.4534	293269.19	5022638.4
SV6&7	Generator #1	315.65	6.096	0.509	23.899368	739	VERTICAL	0.0056	0.0056	0.7850	0.0447	293358.96	5022622.9
SV8&9	Generator #2	315.65	6.096	0.509	23.899368	739	VERTICAL	0.0056	0.0056	0.7850	0.0447	293362.08	5022622.7
SV012	DDGS Storage/Loadout	315.65	10.668	0.4999	21.159216	293	VERTICAL	0.0520	0.0523	0.4131	0.4153	293339.8	5022701.3
SV013	Boiler #2	315.79	8.5314	0.7894	18.199608	422	VERTICAL	0.0578	0.0571	0.4590	0.4534	293281.31	5022638.4
SV015	Boiler #3	315.95	22.8996	1.9812	15.800832	422	VERTICAL	0.2518	0.2518	1.9986	1.9986	293220.34	5022662.4
SV016	Grain Milling	315.65	14.6304	0.8595	18.400776	293	VERTICAL	0.0388	0.0387	0.3078	0.3071	293362.65	5022634.2
SV023	Fire Pump	315.65	6.096	0.3566	18.708624	786	VERTICAL	0.0019	0.0019	0.2693	0.0153	293431.15	5022744.8
SV024	RTO	315.8	24.384	1.8288	17.699736	433.15	VERTICAL	0.6300	0.6300	5.0000	5.0000	293248.61	5022685.5
SV025	Flare Stack	316.14	27.432	0.4572	33.509712	1122.04	VERTICAL	0.0173	0.0046	0.1377	0.0363	293163.66	5022658.4
SV026	Wood Receiving	316.29	2.9992	0.9754	15.160752	293	VERTICAL	0.0315	0.0043	0.2500	0.0340	293094.6	5022665.8
SV027	Wood Feed	316.26	16.4592	0.4877	17.248632	293	VERTICAL	0.0315	0.0043	0.2500	0.0340	293140.47	5022654
SV028	Ash Handling	316.43	12.192	1.0973	22.360128	366.48	VERTICAL	0.0017	0.0002	0.0133	0.0018	293095.88	5022641.4
SV029	Media Separator	316.17	24.384	0.2042	5.458968	394.26	VERTICAL	0.0081	0.0081	0.0643	0.0644	293152.67	5022670.1

Stack ID	Source Description	Modeled Parameters										Location UTM NAD83	
		Base Elevation (m)	Stack Height (m)	Stack Diameter (m)	Exit Velocity (m/s)	Stack Exit Temp. (K)	Release Type	24-hr Emission Rate (g/s)	Annual Emission Rate (g/s)	24-hr Emission Rate (lb/hr)	Annual Emission Rate (lb/hr)	Easting (m)	Northing (m)
SV030	Briquette Bulk Bag	316.34	10.668	0.1006	29.099256	327.59	VERTICAL	0.0016	0.0016	0.0129	0.0128	293089	5022653.7
SV031	Briquette Cooler	316.36	10.668	0.1006	58.235088	310.93	VERTICAL	0.0032	0.0033	0.0257	0.0258	293092	5022653.7
unassigned	Cooling Tower	315.94	10.3998	3.051	44.5008	293	VERTICAL	0.0056	0.0056	0.0442	0.0443	293244.12	5022627.9
unassigned	Cooling Tower	315.96	10.3998	3.051	44.5008	293	VERTICAL	0.0056	0.0056	0.0442	0.0443	293240.5	5022628
unassigned	Cooling Tower	315.97	10.3998	3.051	44.5008	293	VERTICAL	0.0056	0.0056	0.0442	0.0443	293236.75	5022628.2
unassigned	Cooling Tower	315.99	10.3998	3.051	44.5008	293	VERTICAL	0.0056	0.0056	0.0442	0.0443	293232.77	5022628.2
unassigned	Cooling Tower	316	10.3998	3.051	44.5008	293	VERTICAL	0.0056	0.0056	0.0442	0.0443	293228.92	5022628.3
unassigned	Cooling Tower	316.02	10.3998	3.051	44.5008	293	VERTICAL	0.0056	0.0056	0.0442	0.0443	293225.21	5022628.5
unassigned	Cooling Tower	316.06	11.0002	5.4986	8.698992	293	VERTICAL	0.0024	0.0024	0.0187	0.0187	293215.42	5022628.1
unassigned	Cooling Tower	316.11	11.0002	5.4986	8.698992	293	VERTICAL	0.0024	0.0024	0.0187	0.0187	293203.04	5022628.4
unassigned	GP Baghouse	315.65	15.24	0.762	19.699224	293	VERTICAL	0.0009	0.0007	0.0072	0.0055	293405.32	5022653
SV032	Grain Receiving Baghouse #1	315.65	24.384	0.6096	32.33928	293	VERTICAL	0.0648	0.0648	0.5143	0.5144	293337.2	5022849.4
SV033	Grain Receiving Baghouse #2	315.65	24.384	0.6096	32.33928	293	VERTICAL	0.0648	0.0648	0.5143	0.5144	293358.94	5022848.9
Fibrominn-SV001	FB Boiler 100	314.15	91.44	2.4902	23.938992	394.26	VERTICAL	19.9077	19.9077	158.0000	158.0000	293822	5022057
Unassigned	FB Lime Vent	314.41	15.4991	0.2987	8.010144	293	VERTICAL	0.0302	0.0302	0.2397	0.2397	293837	5022110
Unassigned	FB Fuel Haul	314.56	22.86	1.5697	7.309104	293	VERTICAL	0.1593	0.0190	1.2643	0.1507	293929	5022108
Unassigned	FB Fire Pump	314.51	7.62	0.128	36.600384	755	VERTICAL	0.0011	0.0001	0.0087	0.0011	293922	5022089
Unassigned	FB NAF Ash	314.11	3.048	0.3048	0.00100584	293	HORIZONTAL	0.0002	0.0002	0.0013	0.0014	293711	5021985

APPENDIX I: Stack Modeled Parameters
Facility Name: Chippewa Valley Ethanol Co LLLP
Permit Number: 15100026-011

Stack ID	Source Description	Modeled Parameters										Location UTM NAD83	
		Base Elevation (m)	Stack Height (m)	Stack Diameter (m)	Exit Velocity (m/s)	Stack Exit Temp. (K)	Release Type	24-hr Emission Rate (g/s)	Annual Emission Rate (g/s)	24-hr Emission Rate (lb/hr)	Annual Emission Rate (lb/hr)	Easting (m)	Northing (m)
Unassigned	NEW Grain Milling Baghouse	315.65	24.384	0.762	20.6977488	293	VERTICAL	0.0648	0.0648	0.5143	0.5144	293361.6	5022853.3
SV05	Boiler #1 - Baseline	315.83	8.5314	0.7894	18.199608	422	VERTICAL	-0.0247		-0.1959		293269.19	5022638.4
SV015	DDGS Storage/Loadout - Baseline	315.65	1.6794	0.4999	21.159216	293	VERTICAL	-0.0152		-0.1204		293339.8	5022701.3
SV013	Boiler #2 - Baseline	315.79	8.5314	0.7894	18.199608	422	VERTICAL	-0.0247		-0.1959		293281.31	5022638.4
SV016	Grain Milling - Baseline	315.65	7.62	0.8595	18.400776	293	VERTICAL	-0.0152		-0.1209		293362.65	5022634.2
SV024	RTO - (Dryer Baseline)	315.8	24.384	1.8288	17.699736	433.15	VERTICAL	-0.6379		-5.0630		293248.61	5022685.5

Table 2: Chippewa Valley Ethanol Company Volume Source Model Parameters: PM_{10}

Unit ID	Source Description	Modeled Parameters								Location UTM NAD83	
		Base Elevation (m)	Height (m)	Sigma Y (m)	Sigma Z (m)	24-hr Emission Rate (g/s)	Annual Emission Rate (g/s)	24-hr Emission Rate (lb/hr)	Annual Emission Rate (lb/hr)	Easting (m)	Northing (m)
FS003	DDGS Loadout Fugitives	315.65	4.88	3.35	4.53	4.47E-04	3.45E-04	3.55E-03	0.002739726	293337.05	5022717.2
FS008	Wood Fugitives	316.25	5.334	2.835	4.96	0.00E+00	0.00E+00	0	0	293076.05	5022662.5
FS009	Ash Loading Fugitives	316.46	14.478	8.506	13.47	1.00E-02	1.37E-03	0.0797	0.010872374	293087.58	5022634.2
FS010	DDGS Storage Fugitives	315.65	9.144	8.35	3.66	1.80E-04	1.81E-04	1.43E-03	0.00143379	293320.62	5022697.3
FS005FS007	GP Loadout and Receiving	315.47	4.88	3.35	4.54	2.27E-02	1.74E-02	0.18	0.138356164	293411.23	5022646.5
Unassigned	GP Dryer	315.65	14.63	1.13	4.98	1.16E-01	9.49E-03	0.924	0.075342466	293381.83	5022652.4

APPENDIX I: Stack Modeled Parameters
Facility Name: Chippewa Valley Ethanol Co LLLP
Permit Number: 15100026-011

Unit ID	Source Description	Modeled Parameters								Location UTM NAD83	
		Base Elevation (m)	Height (m)	Sigma Y (m)	Sigma Z (m)	24-hr Emission Rate (g/s)	Annual Emission Rate (g/s)	24-hr Emission Rate (lb/hr)	Annual Emission Rate (lb/hr)	Easting (m)	Northing (m)
FS011	Organic Recieving Pit	315.65	0.6096	5	5	9.21E-03	3.94E-04	0.0731	0.003127854	293369.04	5022634
FS012	CVEC Grain Receiving	315.65	4.572	2.13	4.25	3.07E-02	8.17E-03	0.244	0.064840183	293332.87	5022837.4
FS012	CVEC Grain Receiving	315.65	4.572	2.13	4.25	3.07E-02	8.17E-03	0.244	0.064840183	293363.52	5022837.4
FS003	DDGS Loadout Fugitives - Baseline	315.65	4.88	3.35	4.53	-1.26E-04		-1.00E-03		293337.05	5022717.2
FS005FS007	GP Loadout and Receiving - Baseline	315.47	4.88	3.35	4.54	-3.40E-02		-0.27		293411.23	5022646.5
Unassigned	GP Dryer - Baseline	315.65	14.63	1.13	4.98	-5.04E-03		-0.04		293381.83	5022652.4
	Cargill_Inc_-_Maynar	312.3	10	20	4.19	-2.81E-02		-0.223		304826.1	4975216.5
	Minnesota_Valley_Alf	337	10	20	4.19	-2.67E-01		-2.12		331055.2	4992468
	Cargill_Inc_-_Albert	346	10	20	4.19	-1.52E-02		-0.121		261417.9	5047752.5
	DENCO_LLC	344	10	20	4.19	-9.98E-02		-0.792		272963.6	5050760.5
	Riley_Bros_Construct-Morris	336.9	10	20	4.19	-8.13E-02		-0.645		273933.6	5053818
	Glacial_Plains_Coope	321.22	10	20	4.19	-1.47E-02		-0.117		306185.9	5014815
	CNH_Benson	315.77	10	20	4.19	-4.93E-03		-0.0391		294177.6	5017474
	Benson_Municipal_Uti	318.52	10	20	4.19	-8.69E-04		-6.90E-03		295953.1	5021153

Table 3: Chippewa Valley Ethanol Company Point Source Model Parameters: $PM_{2.5}$

Stack ID	Source Description	Modeled Parameters										Location UTM NAD83	
		Base Elevation (m)	Stack Height (m)	Stack Diameter (m)	Exit Velocity (m/s)	Stack Exit Temp. (K)	Release Type	24-hr Emission Rate (g/s)	Annual Emission Rate (g/s)	24-hr Emission Rate (lb/hr)	Annual Emission Rate (lb/hr)	Easting (m)	Northing (m)
SV05	Boiler #1	315.83	8.5314	0.7894	18.199608	422	VERTICAL	0.0259				293269.19	5022638.4

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Stack ID	Source Description	Modeled Parameters										Location UTM NAD83	
		Base Elevation (m)	Stack Height (m)	Stack Diameter (m)	Exit Velocity (m/s)	Stack Exit Temp. (K)	Release Type	24-hr Emission Rate (g/s)	Annual Emission Rate (g/s)	24-hr Emission Rate (lb/hr)	Annual Emission Rate (lb/hr)	Easting (m)	Northing (m)
SV6&7	Generator #1	315.65	6.096	0.509	23.899368	739	VERTICAL	0.0055				293358.96	5022622.9
SV8&9	Generator #2	315.65	6.096	0.509	23.899368	739	VERTICAL	0.0055				293362.08	5022622.7
SV012	DDGS Storage/Loadout	315.65	10.668	0.4999	21.159216	293	VERTICAL	0.0089				293339.8	5022701.3
SV013	Boiler #2	315.79	8.5314	0.7894	18.199608	422	VERTICAL	0.0259				293281.31	5022638.4
SV015	Boiler #3	315.95	22.8996	1.9812	15.800832	422	VERTICAL	0.2520				293220.34	5022662.4
SV016	Grain Milling	315.65	14.6304	0.8595	18.400776	293	VERTICAL	0.0250				293362.65	5022634.2
SV023	Fire Pump	315.65	6.096	0.3566	18.708624	786	VERTICAL	0.0019		0.2053		293431.15	5022744.8
SV024	RTO	315.8	24.384	1.8288	17.699736	433.15	VERTICAL	0.5166		0.0435		293248.61	5022685.5
SV025	Flare Stack	316.14	27.432	0.4572	33.509712	1122.04	VERTICAL	0.0131		0.0435		293163.66	5022658.4
SV026	Wood Receiving	316.29	2.9992	0.9754	15.160752	293	VERTICAL	0.0102		0.0708		293094.6	5022665.8
SV027	Wood Feed	316.26	16.4592	0.4877	17.248632	293	VERTICAL	0.0102		0.2053		293140.47	5022654
SV028	Ash Handling	316.43	12.192	1.0973	22.360128	366.48	VERTICAL	0.0005		1.9998		293095.88	5022641.4
SV029	Media Separator	316.17	24.384	0.2042	5.458968	394.26	VERTICAL	0.0028		0.1981		293152.67	5022670.1
SV030	Briquette Bulk Bag	316.34	10.668	0.1006	29.099256	327.59	VERTICAL	0.0006		0.0149		293089	5022653.7
SV031	Briquette Cooler	316.36	10.668	0.1006	58.235088	310.93	VERTICAL	0.0011		4.1000		293092	5022653.7
unassigned	Cooling Tower	315.94	10.3998	3.051	44.5008	293	VERTICAL	0.0056		0.1041		293244.12	5022627.9
unassigned	Cooling Tower	315.96	10.3998	3.051	44.5008	293	VERTICAL	0.0056		0.0813		293240.5	5022628

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Stack ID	Source Description	Modeled Parameters										Location UTM NAD83	
		Base Elevation (m)	Stack Height (m)	Stack Diameter (m)	Exit Velocity (m/s)	Stack Exit Temp. (K)	Release Type	24-hr Emission Rate (g/s)	Annual Emission Rate (g/s)	24-hr Emission Rate (lb/hr)	Annual Emission Rate (lb/hr)	Easting (m)	Northing (m)
unassigned	Cooling Tower	315.97	10.3998	3.051	44.5008	293	VERTICAL	0.0056		0.0813		293236.75	5022628.2
unassigned	Cooling Tower	315.99	10.3998	3.051	44.5008	293	VERTICAL	0.0056		0.0041		293232.77	5022628.2
unassigned	Cooling Tower	316	10.3998	3.051	44.5008	293	VERTICAL	0.0056		0.0225		293228.92	5022628.3
unassigned	Cooling Tower	316.02	10.3998	3.051	44.5008	293	VERTICAL	0.0056		0.0045		293225.21	5022628.5
unassigned	Cooling Tower	316.06	11.0002	5.4986	8.698992	293	VERTICAL	0.0024		0.0090		293215.42	5022628.1
unassigned	Cooling Tower	316.11	11.0002	5.4986	8.698992	293	VERTICAL	0.0024		0.0442		293203.04	5022628.4
unassigned	GP Baghouse	315.65	15.24	0.762	19.699224	293	VERTICAL	0.0002		0.0442		293405.32	5022653
SV032	Grain Receiving Baghouse #1	315.65	24.384	0.6096	32.33928	293	VERTICAL	0.0648		0.0442		293337.2	5022849.4
SV033	Grain Receiving Baghouse #2	315.65	24.384	0.6096	32.33928	293	VERTICAL	0.0648		0.0442		293358.94	5022848.9
Fibrominn-SV001	FB Boiler 100	314.15	91.44	2.4902	23.938992	394.26	VERTICAL	19.9077		0.0442		293822	5022057
Unassigned	FB Lime Vent	314.41	15.4991	0.2987	8.010144	293	VERTICAL	0.0302		0.0442		293837	5022110
Unassigned	FB Fuel Haul	314.56	22.86	1.5697	7.309104	293	VERTICAL	0.0531		0.0187		293929	5022108
Unassigned	FB Fire Pump	314.51	7.62	0.128	36.600384	755	VERTICAL	0.0011		0.0187		293922	5022089
Unassigned	FB NAF Ash	314.11	3.048	0.3048	0.00100584	293	HORIZONTAL	0.0002		0.0012		293711	5021985
Unassigned	NEW Grain Milling Baghouse	315.65	24.384	0.762	20.6977488	293	VERTICAL	0.0648		0.5143		293361.6	5022853.3

APPENDIX I: Stack Modeled Parameters
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Table 4: Chippewa Valley Ethanol Company Volume Source Model Parameters: $PM_{2.5}$

Unit ID	Source Description	Modeled Parameters								Location UTM NAD83	
		Base Elevation (m)	Height (m)	Sigma Y (m)	Sigma Z (m)	24-hr Emission Rate (g/s)	Annual Emission Rate (g/s)	24-hr Emission Rate (lb/hr)	Annual Emission Rate (lb/hr)	Easting (m)	Northing (m)
FS003	DDGS Loadout Fugitives	315.65	4.88	3.35	4.53	4.47E-04		3.55E-03		293337.05	5022717.2
FS008	Wood Fugitives	316.25	5.334	2.835	4.96	0.00E+00		0		293076.05	5022662.5
FS009	Ash Loading Fugitives	316.46	14.478	8.506	13.47	3.55E-03		0.0282		293087.58	5022634.2
FS010	DDGS Storage Fugitives	315.65	9.144	8.35	3.66	2.73E-05		2.17E-04		293320.62	5022697.3
FS005FS007	GP Loadout and Receiving	315.47	4.88	3.35	4.54	3.79E-03		0.0301		293411.23	5022646.5
Unassigned	GP Dryer	315.65	14.63	1.13	4.98	1.98E-02		0.157		293381.83	5022652.4
FS011	Organic Recieving Pit	315.65	0.6096	5	5	1.54E-03		0.0122		293369.04	5022634
FS012	CVEC Grain Receiving	315.65	4.572	2.13	4.25	5.12E-03		0.0406		293332.87	5022837.4
FS012	CVEC Grain Receiving	315.65	4.572	2.13	4.25	5.12E-03		0.0406		293363.52	5022837.4

APPENDIX I: Stack Modeled Parameters
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Appendix II: Insignificant Activities

Under Minn. R. 7007.1250, subp. 1(A), the Permittee may add insignificant activities to the stationary source throughout the term of the permit without getting permit amendments. Certain exclusions apply and are listed in Minn. R. 7007.1250, subp.2. In addition, this permit specifically prohibits the Permittee from making any modifications that would make the source major under NSR. The following table is a listing of the insignificant activities that the Permittee is somewhat likely to add and their associated applicable requirements.

Minn. R.	Rule Description of the Activity	General Applicable Requirements
7007.1300, subp. 3(I)	Individual emissions units at a stationary source, each of which have a potential to emit the following pollutants in amounts less than: 1. 4,000 lbs/year of carbon monoxide; 2. 2,000 lbs/year each of nitrogen oxide, sulfur dioxide, particulate matter, particulate matter less than ten microns, volatile organic compounds (including hazardous air pollutant-containing VOC), and ozone; and 3. 1,000 tons/year of CO_2e *CEVEC has Beverage Ethanol Storage Tanks:* *TK 5307* *TK 5308* *TK 5309* *TK 5310*	Minn. R. 7011.0110; Minn. R. 7011.1505 subp. 3; 40 CFR pt. 60, subp. K-b
7007.1300, subp. 3(I)	Individual emissions units at a stationary source, each of which have a potential to emit the following pollutants in amounts less than: 1. 4,000 lbs/year of carbon monoxide; 2. 2,000 lbs/year each of nitrogen oxide, sulfur dioxide, particulate matter, particulate matter less than ten microns, volatile organic compounds (including hazardous air pollutant-containing VOC), and ozone; and 3. 1,000 tons/year of CO_2e	Minn. R. 7011.0110

Minn. R.	Rule Description of the Activity	General Applicable Requirements
	CVEC operates cooling towers that qualify as insignificant activities.	
7007.1300, subp. 3(I)	Individual emissions units at a stationary source, each of which have a potential to emit the following pollutants in amounts less than: 1. 4,000 lbs/year of carbon monoxide; 2. 2,000 lbs/year each of nitrogen oxide, sulfur dioxide, particulate matter, particulate matter less than ten microns, volatile organic compounds (including hazardous air pollutant-containing VOC), and ozone; and 3. 1,000 tons/year of CO_2e *CVEC operates a centrifuge: this unit only produces VOC and HAPs emission when the RTO (CE010) and the dryers (EU014 and EU039) are shut down for routine maintenance. When these units are shutdown, wetcake is produced. The emissions from wetcake production are VOCs (including HAP-containing VOCs) and are vented by the decanter centrifuges as an insignificant activity (less than 2,000 lb/year of emissions).*	Minn. R. 7011.0110

Appendix III: NOx Calculation

CVEC will monitor and record the natural gas usage for the boilers, dryers and thermal oxidizers once per week. Once each week, CVEC will calculate the weekly NO_x emissions for the previous week (in tons) and total NO_x emissions for the previous 52-week period (in tons). The NO_x emissions shall be calculated using the following equation (note: emissions from Boiler #3 are only included when burning natural gas or propane:

$$\sum_{i=1}^{52} D_1 * FD_{1i} + D_2 * FD_2 i + TO * FTOi + B_1 * FB_1 i + B_2 * FB_2 i + B_3$$

Where:

D_1 = *Dryer #1 emission factor*

D_2 = *Dryer #2 emission factor*

TO = *Thermal Oxidizer emission factor*

B_1 = *Boiler #1 emission factor* (determined from performance test)

B_2 = *Boiler #2 emission factor* (determined from performance test)

B_3 = *Boiler #3 emissions* (determined from MR001 (CEMS) data)

FD_1 = *Dryer #1 fuel usage for week i*

FD_2 = *Dryer #2 fuel usage for week i*

FTO = *Thermal Oxidizer fuel usage for week i*

FB_1 = *Boiler #1 fuel usage for week i*

FB_2 = *Boiler #2 fuel usage for week i*

Appendix IV: RICE NESHAP Compliance Determination with the Percent Reduction Requirement

The Permittee shall conduct three separate test runs for each performance test required by 40 CFR pt. 63, subp. ZZZZ, as specified in 40 CFR §63.7(e)(3). Each test run shall last at least 1 hour.

The Permittee shall use Equation 1 of 40 CFR §63.6620 to determine compliance with the percent reduction requirement:

$$\frac{C_i - C_o}{C_i} * 100 = R \qquad \text{(Eq. 1)}$$

Where:
C_i = concentration of CO at the control device inlet.
C_o = concentration of CO at the control device outlet, and
R = percent reduction of CO emissions

The Permittee shall normalize the carbon monoxide (CO) concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen, or an equivalent percent carbon dioxide (CO_2). If pollutant concentrations are to be corrected to 15 percent oxygen and CO_2 concentration is measured in lieu of oxygen concentration measurement, a CO_2 correction factor is needed. Calculate the CO_2 correction factor as described in paragraphs (e)(2)(i) through (iii) of 40 CFR §63.6620.

(i) Calculate the fuel-specific F_o value for the fuel burned during the test using values obtained from Method 19, section 5.2, and the following equation:

$$F_o = \frac{0.209 F_d}{F_c} \qquad \text{(Eq. 2)}$$

Where:
F_o
= Fuel factor based on the ratio of oxygen volume to the ultimate CO_2 volume produced by the fuel at zero percent excess a
0.209 = Fraction of air that is oxygen, $\frac{\text{percent}}{100}$,
F_d
= Ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, dsm^3/J ($dscf/10^6$ Btu).
F_c
= Ratio of the volume of CO_2 produced to the gross calorific value of fuel from Method 19, dsm^3/J ($dscf/10^6$ Btu).

(ii) Calculate the CO_2 correction factor for correcting measurement data to 15 percent oxygen, as follows:

$$X_{CO_2} = \frac{5.9}{F_o} \qquad \text{(Eq. 3)}$$

Where:
X_{CO_2} = CO_2 correction factor, percent,
5.9 = 20.9 percent O_2 - 15 percent O_2, the defined O_2 correction value, percent.

(iii) Calculate the NO_x and SO_2 gas concentrations adjusted to 15 percent O_2 using CO_2 as follows:

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$$C_{adj} = C_d \frac{\%CO_2}{\%CO_2} \quad \text{(Eq. 4)}$$

Where:

$\%CO_2$ = *Measured CO_2 concentration measured, dry basis, percent.*

APPENDIX V: Emission Units Authorized By Permit 15100026-012

Emission Unit	Associated Control Device	Stack/Vent	Group	Description	Where to find requirements
EU002,	CE005	SV016	NA	Grain Cleaning	CE005 and SV016
EU003	CE005	SV016	NA	Hammermill # 1	CE005 and SV016
EU004, EU006-EU013, EU019, EU027, EU028, EU035-EU038, and EU055	CE006	SV014	GP011	Fermentation	CE006 and GP011
EU014	CE004 and CE010	SV024	GP001 and GP007	Dryer	CE010, SV024, GP001 and GP007
EU015/FS010	NA	SV010	NA	DDGS Piling and Storage	No listed requirements
EU016	NA	SV005	GP001	Boiler 1	GP001
EU017 and EU018	CE003	SV003	NA	Distillation 1 and 2	CE003
EU020 and EU021	CE018 and CE019	SV006-SV009	GP002	Peaking Generators	GP002
EU022, EU023, EU042	CE002	SV012	NA	DDGS Handling and Loadout	EU022, EU042, CE002 and SV012
EU025	CE010	SV024	GP013	Ethanol Loadout	EU025, CE010, SV024 and GP013
EU030	CE003	SV003	NA	Purification System	CE003
EU031	NA	SV013	GP001	Boiler 2	GP001
EU032-EU034	CE005	SV016	NA	Hammermills #2, #3, and #4	CE005 and SV016
EU039	CE007 and CE010	SV024	GP001 and GP007	Dryer #2	CE010, SV024, GP001 and GP007
EU040	CE015, CE016	SV015	GP001, GP008	Boiler 3	EU040, CE015, CE016, GP001 and GP008
EU041	CE005	SV016	NA	Grain Conveyor	CE005 and SV016
EU042	CE002	SV012	NA	DDGS Loadout	EU042, CE002 and SV012
EU046	NA	SV023	NA	Emergency Fire Pump	EU046
EU047	CE010	SV024	GP001 and GP007	RTO	CE010, SV024, GP001 and GP007
EU048	CE011	SV026	GP008	Wood Receiving	EU048, CE011, SV026 and GP008
EU049	CE012	SV027	GP008	Wood Feed	CE012, SV027 and GP008
EU050	CE014, CE015 and CE016	SV025	GP008	Gasifier	EU050, CE014, CE015, CE016 and GP008

Emission Unit	Associated Control Device	Stack/Vent	Group	Description	Where to find requirements
EU051	CE013	SV028	GP008	Ash Handling	EU051, CE013, SV028 and GP008
EU052	NA	SV029	GP008	Media Product Separator	SV029 and GP008
EU053 and EU054	CE017	SV030 and SV031	GP008	Briquette Making Equipment	CE017, SV030, SV031 and GP008
EU056	CE005	SV016	NA	Specialty Grain Pit	EU056, CE005 and SV016
EU057-EU067, EU079	CE020	SV032	GP010, GP011 and GP012	Grain Receiving, Transfer and Storage Line 1	CE020, SV032, GP010, GP011 and GP012
EU068-EU078	CE021	SV033	GP010, GP011 and GP012	Grain Receiving, Transfer and Storage Line 2	CE021, SV033, GP010, GP011 and GP012

APPENDIX VI: Facility Description Summary Table

Emission Unit	Associated Control Device	Stack/Vent	Group	Description	Where to find requirements
EU002,	CE005	SV016	NA	Grain Cleaning	CE005 and SV016
EU003	CE005	SV016	NA	Hammermill # 1	CE005 and SV016
EU004, EU006-EU013, EU019, EU027, EU028, EU035-EU038, and EU055	CE006	SV014	GP011	Fermentation	CE006 and GP011
EU014	CE004 and CE010	SV024	GP001 and GP007	Dryer	CE010, SV024, GP001 and GP007
EU015/FS010	NA	SV010	NA	DDGS Piling and Storage	No listed requirements
EU016	NA	SV005	GP001	Boiler 1	GP001
EU017 and EU018	CE003	SV003	GP012	Distillation 1 and 2	CE003 and GP012
EU020 and EU021	CE018 and CE019	SV006-SV009	GP002	Peaking Generators	GP002
EU022, EU023, EU042	CE002	SV012	NA	DDGS Handling and Loadout	EU022, EU042, CE002 and SV012
EU025	CE010	SV024	GP015	Ethanol Loadout	EU025, CE010, SV024 and GP015
EU030	CE003	SV003	NA	Purification System	CE003
EU031	NA	SV013	GP001	Boiler 2	GP001
EU032-EU034	CE005	SV016	NA	Hammermills #2, #3, and #4	CE005 and SV016
EU039	CE007 and CE010	SV024	GP001 and GP007	Dryer #2	CE010, SV024, GP001 and GP007
EU040	CE015, CE016	SV015	GP001, GP008	Boiler 3	EU040, CE015, CE016, GP001 and GP008
EU041	CE005	SV016	NA	Grain Conveyor	CE005 and SV016
EU042	CE002	SV012	NA	DDGS Loadout	EU042, CE002 and SV012
EU046	NA	SV023	NA	Emergency Fire Pump	EU046
EU047	CE010	SV024	GP001 and GP007	RTO	CE010, SV024, GP001 and GP007
EU048	CE011	SV026	GP008	Wood Receiving	EU048, CE011, SV026 and GP008
EU049	CE012	SV027	GP008	Wood Feed	CE012, SV027 and GP008
EU050	CE014, CE015 and CE016	SV025	GP008	Gasifier	EU050, CE014, CE015, CE016 and GP008

Emission Unit	Associated Control Device	Stack/Vent	Group	Description	Where to find requirements
EU051	CE013	SV028	GP008	Ash Handling	EU051, CE013, SV028 and GP008
EU052	NA	SV029	GP008	Media Product Separator	SV029 and GP008
EU053 and EU054	CE017	SV030 and SV031	GP008	Briquette Making Equipment	CE017, SV030, SV031 and GP008
EU056	CE005	SV016	NA	Specialty Grain Pit	EU056, CE005 and SV016
EU057-EU067, EU079	CE020	SV032	GP010, GP013 and GP014	Grain Receiving, Transfer and Storage Line 1	CE020, SV032, GP010, GP013 and GP014
EU068-EU078	CE021	SV033	GP010, GP013 and GP014	Grain Receiving, Transfer and Storage Line 2	CE021, SV033, GP010, GP013 and GP014