

DRAFT

AIR EMISSION PERMIT NO. 05301187- 001

IS ISSUED TO

Midtown Eco Energy LLC

MIDTOWN ECO ENERGY

2850 20th Avenue South

Minneapolis, Hennepin County, MN 55407

The emission units, control equipment and emission stacks at the stationary source authorized in this permit are as described in the following permit application(s):

Permit Type	Application Date
Total Facility Operating Permit	12/11/2006, revised February 20, 2007, and July 18, 2007

This permit authorizes the Permittee to operate and construct 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.

Permit Type: Federal; Pt 70/NSR Authorization

Issue Date: {issue_date}

Expiration: Five years from Issuance Date
All Title I Conditions do not expire.

Richard J. Sandberg, Manager
Air Quality Permits Section
Industrial Division

for Brad Moore
Commissioner
Minnesota Pollution Control Agency

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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 Midtown Eco Energy project will be a 24.5 MW gross generation biomass plant, located in Minneapolis. It will be located at what is currently a solid waste transfer station. The facility will consist of a 358.6 MMBtu/hr wood-fired Main Boiler, an emergency generator, a cooling tower and wood handling equipment. The facility will generate power that can be sold to the grid; the facility also could produce steam to supply steam heating needs in the area. For the fuel for the Main Boiler, the facility will use wood residue, such as wood chips and tree trimmings, which would otherwise be landfilled. Control equipment for the boiler will include a baghouse to control particulate matter emissions and a Selective Noncatalytic Reduction (SNCR) system for nitrogen oxides control. Particulate matter emissions from the wood handling equipment will be controlled by baghouses.

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy
 Permit Number: 05301187 - 001

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
Parameters Used in Modeling: The stack heights, emission rates, and other parameters used in the PSD modeling are listed in Appendix C of this permit. The Permittee must submit to the Commissioner for approval any revisions of these parameters and must wait for a written approval before making such changes. The information submitted must include, at a minimum, the locations, heights and diameters of the stacks, locations and dimensions of nearby buildings, the velocity and temperatures of the gases emitted, and the emission rates. The plume dispersion characteristics due to the revisions of the information must be equivalent to or better than the dispersion characteristics in the 2007 modeling submittal. 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 remodel	Minn. R. 7007.0800, subp. 2
For changes that do not involve an increase in an emission rate or otherwise do not require a permit amendment, this proposal must be submitted as soon as practicable, but no less than 60 days before beginning actual construction of the stack or associated emission unit. For changes involving increases in emission rates and that require a minor permit amendment, the proposal must be submitted as soon as practicable, but no less than 60 days before beginning actual construction of the stack or associated emission unit. For changes involving increases in emission rates and that require a permit amendment other than a minor amendment, the proposal must be submitted with the permit application.	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Air Toxics Pollutant Emissions: If the Permittee proposes to increase the capacity of the main boiler (thus increasing the emission rates), the Permittee shall first use the Midtown Eco Energy Air Emissions Risk Analysis (AERA) report as a template for recalculating the risk due to the increase in emissions. The Permittee shall submit a report to the MPCA of the proposed change and demonstrate that the recalculated risk for all pollutants emitted from the facility does not pose an unacceptable public health risk threshold as described in the Midtown AERA report. If the Permittee proposes to use a new fuel, the Permittee must evaluate the potential health risk from using the new fuel.	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0800, subps. 1, 2 & 4
DETERMINING IF A PROJECT/MODIFICATION IS SUBJECT TO NEW SOURCE REVIEW	hdr
These requirements apply where there is a reasonable possibility that a proposed project, analyzed using the actual-to-projected-actual (ATPA) test and found to not be part of a major modification, may result in a significant emissions increase. If the ATPA test is not used for a particular project, or if there is not a reasonable possibility that the proposed project could result in a significant emissions increase, then these requirements do not apply to that project. Even though a particular modification is not subject to New Source Review, a permit amendment, recordkeeping, or notification may still be required under Minn. R. 7007.1150 - 7007.1500.	Title I Condition: 40 CFR Section 52.21(r)(6) and Minn. R. 7007.3000

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

<p>Preconstruction Documentation -- Before beginning actual construction on a project, the Permittee shall document the following information:</p> <ol style="list-style-type: none"> 1. A description of the project 2. Identification of the emission unit(s) whose emissions of an NSR pollutant could be affected 3. A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions, the potential emissions, the projected actual emissions, the amount of emissions excluded due to increases not associated with the modification and that the unit(s) could have accommodated during the baseline period, an explanation of why the amounts were excluded, and any creditable contemporaneous increases and decreases that were considered in the determination. <p>The Permittee shall maintain records of this documentation.</p>	<p>Title I Condition: 40 CFR Section 52.21(r)(6) and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 & 5</p>
<p>The Permittee shall monitor the actual emissions of any regulated NSR pollutant that could increase as a result of the project and that were analyzed using the ATPA test, and the potential emissions of any regulated NSR pollutant that could increase as a result of the project and that were analyzed using potential emissions. The Permittee shall calculate and maintain a record of the sum of the actual and potential (if used in the analysis) emissions of the regulated pollutant, in tons per year on a calendar year basis, for a period of 5 years following resumption of regular operations after the change, or for a period of 10 years following resumption of regular operations after the change if the project increases the design capacity of or potential to emit of any unit associated with the project.</p>	<p>Title I Condition: 40 CFR Section 52.21(r)(6) and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 & 5</p>
<p>The Permittee must submit a report to the Agency if the annual summed (actual plus potential, if applicable) emissions differ from the preconstruction projection and exceed the baseline actual emissions by a significant amount as listed at 40 CFR Section 52.21(b)(23). Such report shall be submitted to the Agency within 60 days after the end of the year in which the exceedances occur. The report shall contain:</p> <ol style="list-style-type: none"> a. The name and ID number of the facility, and the name and telephone number of the facility contact person b. The annual emissions (actual plus potential, if any part of the project was analyzed using potential emissions) for each pollutant for which the preconstruction projection and significant emissions increase are exceeded. c. Any other information, such as an explanation as to why the summed emissions differ from the preconstruction projection. 	<p>Title I Condition: 40 CFR Section 52.21(r)(6) and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 & 5</p>
<p>OPERATIONAL REQUIREMENTS</p>	<p>hdr</p>
<p>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.</p>	<p>40 CFR pt. 50; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subps. 7A, 7L & 7M; Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080.</p>
<p>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.</p>	<p>Minn. R. 7011.0020</p>
<p>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.</p>	<p>Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 16(J)</p>
<p>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.</p>	<p>Minn. R. 7007.0800, subp. 14 and Minn. R. 7007.0800, subp. 16(J)</p>
<p>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.</p>	<p>Minn. R. 7019.1000, subp. 4</p>
<p>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.</p>	<p>Minn. R. 7011.0150</p>
<p>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.</p>	<p>Minn. R. 7030.0010 - 7030.0080</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

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
SOLID WASTE STORAGE REQUIREMENTS	hdr
The Permittee shall store any fuels falling under the definition of solid waste in accordance with Minn. R. 7035.2855.	Minn. R. 7035.2855
Prior to operation of a storage facility, owners and operators shall obtain a written certification from an engineer licensed in Minnesota stating that the storage facility is designed and constructed to meet the requirements of this part. A copy of this certification shall be maintained on file by the owner or operator and shall be made available to the Agency upon request.	Minn. R. 7035.2855, subp. 7(A)
PERFORMANCE TESTING	hdr
Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in Tables A, B, and/or C.	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. Rs. 7017.2030, subp. 1-4, 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, B, and/or C, 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
Recordkeeping: 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 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)
Recordkeeping: 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)
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

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

<p>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.</p> <p>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.</p>	Minn. R. 7019.1000, subp. 2
<p>Notification of Deviations Endangering Human Health or the Environment: As soon as possible after discovery, notify the Commissioner or the state duty officer, either orally or by facsimile, of any deviation from permit conditions which could endanger human health or the environment.</p>	Minn. R. 7019.1000, subp. 1
<p>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:</p> <ol style="list-style-type: none"> 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
<p>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.</p>	Minn. R. 7007.1150 through Minn. R. 7007.1500
<p>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).</p>	Minn. R. 7007.1400, subp. 1(H)
<p>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.</p>	Minn. R. 7019.3000 through Minn. R. 7019.3100
<p>Emission Fees: due 60 days after receipt of an MPCA bill.</p>	Minn. R. 7002.0005 through Minn. R. 7002.0095

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

Subject Item: EU 001 Main Boiler

Associated Items: CE 001 Fabric Filter - High Temperature, i.e., T>250 Degrees F

CE 002 Selective Noncatalytic Reduction for NOX

MR 001 Opacity Monitor

MR 002 NOx Monitor

MR 003 CO Monitor

SV 001 Combined stack for EU 001, EU 003

What to do	Why to do it
EU001 must comply with 40 CFR pt. 63, subp. DDDDD (referred to as subpart DDDDD in this portion of the permit) upon startup of the unit.	40 CFR Section 63.6(b); 40 CFR Section 63.7495(a)
All submittals and notifications under subpart DDDDD shall be sent to both the MPCA and EPA contacts listed on Page B-1 of this permit, unless otherwise noted.	Minn. R. 7007.0800, subp. 2
BACT AND NSPS LIMITS AND REQUIREMENTS	hdr
Total Particulate Matter: less than or equal to 0.019 lbs/million Btu heat input	Title I Condition: 40 CFR Section 52.21(k) (BACT); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.038 lbs/million Btu heat input	Title I Condition: 40 CFR Section 52.21(k) (BACT); Minn. R. 7007.3000
Nitrogen Oxides: less than or equal to 0.10 lbs/million Btu heat input using 24-hour Rolling Average	Title I Condition: 40 CFR Section 52.21(k) (BACT); Minn. R. 7007.3000
Carbon Monoxide: less than or equal to 0.10 lbs/million Btu heat input using 24-hour Rolling Average	Title I Condition: 40 CFR Section 52.21(k) (BACT); Minn. R. 7007.3000
Sulfur Dioxide: less than or equal to 0.20 lbs/million Btu heat input	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000; 40 CFR Section 60.42b(k); Minn. R. 7011.0565
Nitrogen Oxides: less than or equal to 0.20 lbs/million Btu heat input using 30-day Rolling Average . This limit applies at all times, including periods of startup, shutdown, or malfunction.	40 CFR Section 60.44b(l)(1); Minn. R. 7011.0565
Total Particulate Matter: less than or equal to 0.030 lbs/million Btu heat input . This limit applies at all times except during periods of startup, shutdown or malfunction.	40 CFR Section 60.43b(h)(1); Minn. R. 7011.0565
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 opacity standard applies at all times except during periods of startup, shutdown or malfunction.	40 CFR Section 60.43b(f); Minn. R. 7011.0565
Ammonia slip: less than or equal to 25 ppm	Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
NESHAP EMISSION AND OPERATIONAL LIMITS	hdr
Carbon Monoxide: less than or equal to 400 parts per million using 30-day Rolling Average by volume on a dry basis corrected to 7 percent oxygen. This limit applies at all times except during periods of startup, shutdown, and malfunction.	40 CFR Sections 63.7500(a)(1) and 63.7505(a); 40 CFR Section 63.6(f)(1); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Total Particulate Matter: less than or equal to 0.025 lbs/million Btu heat input . This limit applies at all times except during periods of startup, shutdown, and malfunction.	40 CFR Sections 63.7500(a)(1) and 63.7505(a); 40 CFR Section 63.6(f)(1); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Mercury: less than or equal to 0.000003 lbs/million Btu heat input . This limit applies at all times except during periods of startup, shutdown, and malfunction.	40 CFR Sections 63.7500(a)(1) and 63.7505(a); 40 CFR Section 63.6(f)(1); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Hydrochloric acid: less than or equal to 0.02 lbs/million Btu heat input . This limit applies at all times except during periods of startup, shutdown, and malfunction.	40 CFR Sections 63.7500(a)(1) and 63.7505(a); 40 CFR Section 63.6(f)(1); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Opacity: less than or equal to 10 percent opacity using 1-Hour Average . This limit applies at all times except during periods of startup, shutdown, and malfunction.	40 CFR Sections 63.7500(a)(2) and 63.7505(a); 40 CFR Section 63.6(h)(1); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Mercury Operating Limit: The Permittee shall maintain the fuel type or fuel mixture such that the mercury emission rate calculated according to 40 CFR Section 63.7530(d)(5) is less than the emission limit for mercury.	40 CFR Sections 63.7500(a)(2) and 63.7505(c); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Hydrogen Chloride (HCl) Operating Limit: The Permittee shall maintain the fuel type or fuel mixture such that the HCl emission rate calculated according to 40 CFR Section 63.7530(d)(3) is less than the emission limit for HCl.	40 CFR Sections 63.7500(a)(2) and 63.7505(c); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
The Permittee shall at all times operate and maintain the emission unit subject to the NESHAP and its associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by all relevant standards, as described at 40 CFR Section 63.6(e)(1)(i).	40 CFR Section 63.6(e)(1)(i); 40 CFR Section 63.7505(b); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

<p>CONTROL REQUIREMENTS (See Subject Items CE 001 and CE 002 for specific control equipment operating requirements)</p>	<p>hdr</p>
<p>Particulate Matter Control: The Permittee shall vent the emissions from the boiler to control equipment meeting the requirements set forth in the requirements for CE 001 whenever the boiler is in operation.</p>	<p>40 CFR Sections 63.7500(a)(2) and 63.7505(b); 40 CFR Section 63.6(e)(1); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>The Permittee shall operate and maintain the fabric filter (CE 001) and the SNCR (CE 002) at any time that the process equipment controlled by the fabric filter and SNCR is in operation. The Permittee shall document periods of non-operation of the control equipment.</p>	<p>Title I Condition: 40 CFR Section 52.21(k) and Minn. R. 7007.3000</p>
<p>The Permittee shall operate and maintain the fabric filter such that it achieves a control efficiency for Total Particulate Matter: greater than or equal to 96.6 percent collection efficiency</p>	<p>Title I Condition: 40 CFR Section 52.21(k) and Minn. R. 7007.3000</p>
<p>The Permittee shall operate and maintain the fabric filter such that it achieves a control efficiency for Particulate Matter < 10 micron: greater than or equal to 92.6 percent collection efficiency</p>	<p>Title I Condition: 40 CFR Section 52.21(k) and Minn. R. 7007.3000</p>
<p>FUEL RESTRICTIONS</p>	<p>hdr</p>
<p>Fuel Restrictions: The Permittee shall only burn the fuel types and fuel mixtures used to demonstrate compliance with the applicable emission limit according to 40 CFR Section 63.7530(c) or (d), as applicable.</p>	<p>40 CFR Section 63.7540(a); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>Fuels Allowed: The Permittee shall only combust natural gas; clean wood residue and wood products (e.g. trees, tree stumps, tree limbs, bark, lumber, sawdust, sanderdust, chips, scraps, millings and shavings); and silvicultural materials, such as logging residues (slash) and orchard prunings. The Permittee is also allowed to combust unadulterated wood if this remains covered and allowed by the Boiler NESHAP upon issuance of the permit. Unadulterated wood, as defined in 40 CFR Section 63.7575, is wood products that have not been painted, pigment-stained or pressure treated with compounds such as chromate copper arsenate, pentachlorophenol, and creosote. Plywood, particle board, and oriented strand board, and other types of wood products bound by glues and resins are included in this definition of unadulterated wood.</p>	<p>Title I Condition: 40 CFR Section 52.21(k) and Minn. R. 7007.3000;</p>
<p>Alternative Biomass Fuel Testing Authorization: The Permittee is authorized to conduct test burns of alternative biomass fuels. Acceptable biomass fuels do not include peat, wood that has been painted, stained or pressure treated, waste oil, farm chemicals, pesticide containers, demolition waste except for wood, waste from farms, waste from an open dump, tire-derived fuels, non-agricultural industrial process wastes, animal manures and wastes, or any material meeting the definition of a hazardous waste.</p> <p>Test burns shall consist of up to two phases - feasibility and performance testing. If an alternative biomass fuel meets feasibility requirements (as defined by the Permittee) such that it may be proposed as an additional fuel, the Permittee may move into the performance testing phase.</p>	<p>Minn. R. 7007.0800, subp. 2</p>
<p>Alternative Biomass Fuel Testing Restrictions: Feasibility test burns for any alternative biomass fuel shall be limited to no more than 15 days of operation using the fuel, and a test period not to exceed 30 days. Performance tests for any alternative biomass fuel shall be limited to no more than 30 additional days of operation using the proposed fuel and a test period not to exceed 60 additional days.</p>	<p>Minn. R. 7007.0800, subp. 2</p>
<p>Alternative Biomass Fuel Testing Requirements: Test burns shall be conducted to measure, at a minimum PM, PM10, VOC, SO2, HCl, PAHs, dioxins, and mercury emissions; to monitor NOx and CO emissions; and to determine fuel mercury content. Fuel analysis for SO2 and/or HCl may be proposed in the test plan as an alternative to performance testing. Testing for additional pollutants may be required and should be discussed in the test plan.</p>	<p>Minn. R. 7007.0800, subp. 2</p>
<p>Alternative Biomass Fuel Testing Submittals: 30 days prior to feasibility testing of an alternative biomass fuel, the Permittee shall submit a notification. The notification shall state the anticipated dates for testing, anticipated quantities of fuel to be burned, and a description of the fuel type. The notification shall also document that there would be sufficient quantity of fuel available to conduct performance testing, and that there is likely sufficient quantity of the fuel type so that it would be viable as a fuel.</p> <p>30 days prior to performance testing of an alternative 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 also include: 1) the type(s) and estimated amount of biomass to be tested; 2) operating parameters and anticipated fuel mixes during testing ; 3) air pollutants that will be monitored and measured during testing; and 4) a testing schedule.</p>	<p>Minn. R. 7017.2030, subp. 1-4; Minn. R. 7017.2018</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

Alternative Biomass Fuel Testing Notification and Submittals: Pre-Test Meeting: due 7 days before Performance Test Test Report: due 45 days after Performance Test Test Report - Microfiche Copy or CD: due 105 days after 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
If the alternative biomass is a solid waste, the Permittee shall follow the procedures in Minn. R. 7035.2861, for characterization of the solid waste.	Minn. R. 7035.2861
NESHAP PERFORMANCE TESTING	hdr
The Permittee shall submit the required performance test notifications and reports referenced elsewhere in this permit from Minn. R. ch. 7017.	Minn. R. ch. 7017
The Permittee shall demonstrate initial compliance with each emission limit and work practice standard no later than 180 days after startup of each boiler by either conducting initial performance tests according to 40 CFR Sections 63.7520, 63.7530(c), and Tables 5 and 7 of subpart DDDDD (PM and CO) OR conducting initial fuel analyses to determine emission rates and establishing operating limits, as applicable, according to 40 CFR Sections 63.7521, 63.7530(d), and Tables 6 and 8 of subpart DDDDD (mercury and HCl).	40 CFR Sections 63.7530(a) and 63.7510(g); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
The Initial Compliance Demonstration for CO is conducting a performance evaluation of the CO CEMS according to 40 CFR Section 63.7525(a), and as required under MR 003, within 180 days of Initial Startup of the Main Boiler.	40 CFR Sections 63.7510(c) and 63.7510(g); 40 CFR Section 63.7(a)(2); Minn. R. 7017.2020, subp. 1; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Initial Performance Test: due 180 days after Initial Startup to measure PM emissions.	40 CFR Sections 63.7510(c) and 63.7510(g); 40 CFR Section 63.7(a)(2); Minn. R. 7017.2020, subp. 1; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Performance Test: due before end of each calendar year following Initial Performance Test to measure PM emissions. The Permittee shall conduct annual performance tests, following the initial performance test, according to 40 CFR Section 63.7520. Each annual performance test must be conducted between 10 and 12 months after the previous performance test, except as allowed by 40 CFR Section 63.7515(b) through (d).	40 CFR Sections 63.7515(a); 40 CFR Section 63.7(a)(3); Minn. R. 7017.2020, subp. 1; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
The Permittee shall conduct all performance tests according to 40 CFR Section 63.7(c), (d), (f), and (h) and 40 CFR Section 63.7520(a) through (g), as applicable, and Minn. R. ch. 7017.	40 CFR Section 63.7520; 40 CFR Section 63.7(c), (d), (e), (f), and (h); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
ADDITIONAL TESTING REQUIREMENTS	hdr
Initial Performance Test: due 180 days after Initial Startup of EU 001 to measure Particulate Matter less than 10 micron emissions.	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000
Performance Test: due before end of each year following Initial Performance Test to measure Particulate Matter less than 10 micron emissions.	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000
Initial Performance Test: due 180 days after Initial Startup of EU 001 to measure Sulfur Dioxide emissions.	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000
Performance Test: due 365 days after Initial Startup of EU 001 to measure dioxin emissions. The test results will be used to verify emission factors used in AERA.	Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Performance Test: due 365 days after Initial Startup of EU 001 to measure PAH emissions. The test results will be used to verify emission factors used in AERA.	Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Performance Test: due 365 days after Initial Startup of EU 001 to measure Mercury emissions. The test results will be used to verify emission factors used in AERA. If mercury testing is conducted as described under NESHAP MERCURY PERFORMANCE TEST OPTION, that performance test could be used to satisfy this option.	Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Fuel Analysis: due 365 days after Initial Startup of EU 001 to measure Mercury content of fuel. The fuel analysis shall follow the procedures as specified in the NESHAP MERCURY FUEL ANALYSIS OPTION. If the Mercury Fuel Analysis Option is chosen, those fuel analysis results may be used to satisfy this requirement.	Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
If any of the test results for Mercury, PAHs, or dioxins are higher than emission factors or rates used in the AERA, the Permittee shall recalculate the risk as described under Air Toxics Pollutant Emission Rates listed under Total Facility. The results of the recalculated risk shall be submitted within 120 days of the performance test.	Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Initial Performance Test: due 180 days after Initial Startup of EU 001 to measure Ammonia Slip emissions.	Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Performance Test: due before end of each year following Initial Performance Test to measure Ammonia Slip emissions.	Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
NESHAP COMPLIANCE DEMONSTRATION - HCl	hdr

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

<p>The Permittee must demonstrate initial compliance with the Hydrogen Chloride limit by</p> <p>1) demonstrating eligibility for the health-based compliance alternative for the Hydrogen Chloride (HCl) emissions limit in Table 1 of Subpart DDDDD, under the procedures prescribed in 40 CFR Part 63, Appendix A,</p> <p>OR</p> <p>2) conducting an initial performance test and establishing operating limits, as applicable, according to 40 CFR Sections 63.7520 and 63.7530(c) and Subpart DDDDD Tables 5 and 7,</p> <p>OR</p> <p>3) conducting initial fuel analyses to determine emission rates and establishing operating limits, as applicable, according to 40 CFR Sections 63.7521 and 63.7530(d) and Subpart DDDDD Tables 6 and 8.</p>	<p>40 CFR Section 63.7507(a) and 63.7530(a) and 63.7510(d); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>NESHAP HYDROGEN CHLORIDE DEMONSTRATION - HEALTH BASED COMPLIANCE ALTERNATIVE</p>	<p>hdr</p>
<p>The Permittee must update the eligibility demonstration and resubmit it each time a process change is made such that any of the parameters that defined the boiler changes in a way that could result in increased HAP emissions including, but not limited to, fuel type, fuel mix (annual average), change in type of control device, or changes in process parameters documented as worst-case conditions during any emissions testing used for the approved eligibility demonstration.</p>	<p>40 CFR Part 63, Subpart DDDDD, Appendix A, Item 11(a)</p>
<p>If updating the eligibility demonstration to account for an action in part (a) of Subpart DDDDD, Appendix A, Item 11, then the Permittee must perform emission testing or fuel analysis according to Subpart DDDDD, Appendix A, Item 4, for the emission point that may have increased HAP emissions beyond the levels reflected in the previously approved eligibility demonstration due to the process change. The revised eligibility demonstration must be submitted to the MPCA to incorporate the change in the permit.</p> <p>If the updated eligibility demonstration shows that the boiler is no longer eligible for the health-based compliance alternative, then the Permittee must comply with the applicable emission limits, operating limits, and compliance requirements of Subpart DDDDD prior to making the process change and revising the permit.</p>	<p>40 CFR Part 63, Subpart DDDDD, Appendix A, Item 11(b)</p>
<p>NESHAP HYDROGEN CHLORIDE PERFORMANCE TEST OPTION</p>	<p>hdr</p>
<p>Initial Performance Test: due 180 days after Initial Startup of EU 001 (Main Boiler) to measure Hydrogen Chloride emissions.</p> <p>All performance tests shall be conducted according to 40 CFR Section 63.7(c), (d), (f), and (h) and 40 CFR Section 63.7520(a)-(g), as applicable, and Minn. R. ch. 7017.</p>	<p>40 CFR Section 63.7510(d); 40 CFR Section 63.7520; 40 CFR Section 63.7(a)(2), (c), (d), (e), (f), and (h); Minn. R. 7017.2020, subp. 1; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>Performance Test: due before end of each year following Initial Performance Test to measure Hydrogen Chloride emissions. The Permittee shall conduct annual performance tests, following the initial performance test, according to 40 CFR Section 63.7520. Each annual performance test must be conducted between 10 and 12 months after the previous performance test, except as allowed by 40 CFR Section 63.7515(b)-(d). All performance tests shall be conducted according to 40 CFR Section 63.7(c), (d), (f), and (h) and 40 CFR Section 63.7520(a)-(g), as applicable, and Minn. R. ch. 7017.</p>	<p>40 CFR Section 63.7515(a); 40 CFR Section 63.7520; 40 CFR Section 63.7(a)(3), (c), (d), (e), (f), and (h); Minn. R. 7017.2020, subp. 1; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>Testing for new fuel: If the Permittee demonstrates compliance with the applicable HCl emission limit through performance testing and plans to burn a new type of fuel or a new mixture of fuels, then the Permittee shall recalculate the maximum chlorine input using Equation 5 of 40 CFR Section 63.7530. If the results of recalculating the maximum chlorine input using Equation 5 of 40 CFR Section 63.7530 are higher than the maximum chlorine input level established during the previous performance test, then the Permittee shall conduct a new performance test within 60 days of burning the new fuel type or fuel mixture according to the procedures in 40 CFR Section 63.7520 to demonstrate that the HCl emissions do not exceed the emission limit. The Permittee shall also establish new operating limits based on this performance test according to the procedures in 40 CFR Section 63.7530(c).</p>	<p>40 CFR Section 63.7540(a)(4); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>NESHAP HYDROGEN CHLORIDE FUEL ANALYSIS OPTION</p>	<p>hdr</p>
<p>Initial Fuel Analysis: due 180 days after Initial Startup of EU 001 (Main Boiler) for Hydrogen Chloride for each type of fuel burned in EU 001. The Permittee shall conduct all fuel analyses according to 40 CFR Section 63.7521 and Table 6 of Subpart DDDDD and establish maximum fuel pollutant input levels according to 40 CFR Section 63.7530(c)(1) and(3) and Table 8 of Subpart DDDDD. Follow the procedures in 40 CFR Section 63.7530(d)(1), (2), and (5).</p>	<p>40 CFR Section 63.7510(b); 40 CFR Section 63.7521(a); 63.7530(c) and (d); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

<p>Fuel Analysis: due 1,826 days after Initial Fuel Analysis for Hydrogen Chloride for each type of fuel burned in EU 001. The Permittee shall conduct all fuel analyses according to 40 CFR Section 63.7521 and Table 6 of Subpart DDDDD. Follow the procedures in 40 CFR Section 63.7530(d)(1) and (5). If the Permittee burns a new type of fuel, the Permittee must conduct a new fuel analysis before burning the new type of fuel and must obtain the appropriate permit amendment if the fuel type is not authorized by the permit. The Permittee must still meet the applicable continuous monitoring requirements in 40 CFR Section 63.7540.</p>	<p>40 CFR Section 63.7515(f); 40 CFR Section 63.7521(a); 40 CFR Section 63.7530(d); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>NESHAP COMPLIANCE DEMONSTRATION - MERCURY</p>	<p>hdr</p>
<p>The Permittee must demonstrate initial compliance with the Mercury limit by either</p> <p>1) conducting an initial performance test and establishing operating limits, as applicable, according to 40 CFR Sections 63.7520 and 63.7530(c) and Subpart DDDDD Tables 5 and 7,</p> <p>OR</p> <p>2) conducting initial fuel analyses to determine emission rates and establishing operating limits, as applicable, according to 40 CFR Sections 63.7521 and 63.7530(d) and Subpart DDDDD Tables 6 and 8.</p>	<p>40 CFR Section 63.7530(a) and 63.7510(d); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>Performance Test Report: due 45 days after Performance Test or Fuel Analysis required by Subpart DDDDD. This report should also verify that the operating limits for EU 001 have not changed or shall provide documentation of revised operating parameters established according to 40 CFR Section 63.7530 and Table 7 of Subpart DDDDD, as applicable. The reports for all subsequent performance tests and fuel analyses should include all applicable information required in 40 CFR Section 63.7550. In addition, the results of the performance test shall be submitted as part of the notification of compliance status required under 40 CFR Section 63.9(h). For performance tests, the Permittee shall follow the data analysis, recordkeeping, and reporting requirements in 40 CFR Section 63.7(g).</p>	<p>40 CFR Section 63.7515(g); 40 CFR Section 63.7(g) and 63.10(d)(2); Minn. R. 7017.2035, subp. 2 (performance test only - not applicable to fuel analysis); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>Additional Performance Test Notifications and Submittals:</p> <p>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 - Microfiche Copy or CD: due 105 days after each Performance Test.</p> <p>The Notification, Test Plan, and Test Report may be submitted in alternative format as allowed by Minn. R. 7017.2018.</p>	<p>Minn. R. 7017.2030, subp. 2-4; Minn. R. 7017.2018 and Minn. R. 7017.2035, subp. 1-2</p>
<p>NESHAP MERCURY PERFORMANCE TEST OPTION</p>	<p>hdr</p>
<p>Initial Performance Test: due 180 days after Initial Startup of EU 001 (Main Boiler) to measure Mercury emissions.</p> <p>All performance tests shall be conducted according to 40 CFR Section 63.7(c), (d), (f), and (h) and 40 CFR Section 63.7520(a)-(g), as applicable, and Minn. R. ch. 7017.</p>	<p>40 CFR Section 63.7510(d); 40 CFR Section 63.7520; 40 CFR Section 63.7(a)(2), (c), (d), (e), (f), and (h); Minn. R. 7017.2020, subp. 1; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>Performance Test: due before end of each year following Initial Performance Test to measure Mercury emissions. The Permittee shall conduct annual performance tests, following the initial performance test, according to 40 CFR Section 63.7520. Each annual performance test must be conducted between 10 and 12 months after the previous performance test, except as allowed by 40 CFR Section 63.7515(b)-(d). All performance tests shall be conducted according to 40 CFR Section 63.7(c), (d), (f), and (h) and 40 CFR Section 63.7520(a)-(g), as applicable, and Minn. R. ch. 7017.</p>	<p>40 CFR Section 63.7515(a); 40 CFR Section 63.7520; 40 CFR Section 63.7(a)(3), (c), (d), (e), (f), and (h); Minn. R. 7017.2020, subp. 1; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>Testing for new fuel: If the Permittee demonstrates compliance with the applicable Hg emission limit through performance testing and plans to burn a new type of fuel or a new mixture of fuels, then the Permittee shall recalculate the maximum mercury input using Equation 7 of 40 CFR Section 63.7530. If the results of recalculating the maximum mercury input using Equation 7 of 40 CFR Section 63.7530 are higher than the maximum mercury input level established during the previous performance test, then the Permittee shall conduct a new performance test within 60 days of burning the new fuel type or fuel mixture according to the procedures in 40 CFR Section 63.7520 to demonstrate that the mercury emissions do not exceed the emission limit. The Permittee shall also establish new operating limits based on this performance test according to the procedures in 40 CFR Section 63.7530(c).</p>	<p>40 CFR Section 63.7540(a)(8); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>Performance Test Notification (written): due 30 days before any performance test required by Subpart DDDDD.</p>	<p>40 CFR Section 63.7545(d); Minn. R. 7017.2030, subp. 1; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>NESHAP MERCURY FUEL ANALYSIS OPTION</p>	<p>hdr</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

<p>Initial Fuel Analysis: due 180 days after Initial Startup of EU 001 (Main Boiler) for Mercury for each type of fuel burned in EU 001. The Permittee shall conduct all fuel analyses according to 40 CFR Section 63.7521 and Table 6 of Subpart DDDDD and establish maximum fuel pollutant input levels according to 40 CFR Section 63.7530(c)(1) and (3) and Table 8 of Subpart DDDDD. Follow the procedures in 40 CFR Section 63.7530(d)(1), (2), and (5).</p>	<p>40 CFR Section 63.7510(b); 40 CFR Section 63.7521(a); 63.7530(c) and (d); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>Fuel Analysis: due 1,826 days after Initial Fuel Analysis for Mercury for each type of fuel burned in EU 001. The Permittee shall conduct all fuel analyses according to 40 CFR Section 63.7521 and Table 6 of Subpart DDDDD. Follow the procedures in 40 CFR Section 63.7530(d)(1) and (5). If the Permittee burns a new type of fuel, the Permittee must conduct a new fuel analysis before burning the new type of fuel and must obtain the appropriate permit amendment if the fuel type is not authorized by the permit. The Permittee must still meet the applicable continuous monitoring requirements in 40 CFR Section 63.7540.</p>	<p>40 CFR Section 63.7515(f); 40 CFR Section 63.7521(a); 40 CFR Section 63.7530(d); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>NOx MONITORING AND RECORDKEEPING (See Subject Item MR 002 for specific CEMS operating requirements)</p>	<p>hdr</p>
<p>Emissions Monitoring: The owner or operator shall use a NOx CEMS to measure Nitrogen Oxides emissions from EU 001. Monitoring requirements are located under the subject item MR 002.</p>	<p>Title I Condition: 40 CFR Section 52.21; 40 CFR pt. 60, subp. Db; Minn. R. 7011.0565; Minn. R. 7017.1010, subp. 1</p>
<p>Emissions Monitoring: The owner or operator shall install, operate and maintain a NOx CEMS to measure NOx emissions from EU 001. Monitoring requirements are located under the subject item MR 002.</p>	<p>Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000; 40 CFR Section 60.48b(b)(1); Minn. R. 7017.1006</p>
<p>NESHAP MONITORING AND RECORDKEEPING (See Subject Items MR 001 and MR 003 for specific CEMS and COMS operating requirements)</p>	<p>hdr</p>
<p>Emissions Monitoring: The owner or operator shall use an opacity monitor (COMS) to measure Opacity from EU 001. Monitoring requirements are located under the subject item MR 001.</p>	<p>40 CFR Section 63.7525(b); 40 CFR pt. 60, subp. Db; Minn. R. 7011.0565; Minn. R. 7017.1010, subp. 1; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>Emissions Monitoring: The owner or operator shall use a CO CEMS to measure Carbon Monoxide emissions from EU 001. Monitoring requirements are located under the subject item MR 003.</p>	<p>Title I Condition: 40 CFR Section 52.21; 40 CFR Section 63.7525(a)</p>
<p>Site Specific Monitoring Plan: The Permittee shall develop and implement a site-specific monitoring plan for the boiler according to the requirements of 40 CFR Section 63.7505(d)(1) through (d)(4). The Plan shall be submitted for approval at least 60 days before the initial performance evaluation of any Continuous Monitoring System (CMS). The Plan shall also meet the requirements of 40 CFR Section 63.7525(b)(5). For this boiler, CMSs include the Carbon Monoxide continuous emissions monitoring system (CEMS) and the continuous Opacity monitoring system (COMS).</p>	<p>40 CFR Sections 63.7505(d), 63.7525(a)(1), 63.7525(b)(5), and 63.7535(a); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>Opacity Monitoring: The owner or operator shall install, operate and maintain a COMS to measure Opacity from EU 001. Monitoring requirements are located under the subject item MR 001.</p>	<p>40 CFR Section 63.7525(b); 40 CFR Section 60.38b(a); Minn. R. 7017.1006; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>Emissions Monitoring: The owner or operator shall install, operate and maintain a CO CEMS to measure CO emissions from EU 001. Monitoring requirements are located under the subject item MR 003.</p>	<p>Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000; 40 CFR Section 63.7525(a); Minn. R. 7017.1006</p>
<p>Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the Permittee must monitor continuously (or collect data at all required intervals) at all times that the boiler is operating. The Permittee may not use data recorded during monitoring malfunctions, associated repairs, or required quality assurance or control activities in data averages and calculations used to report emission or operating levels. The Permittee must use all the data collected during all other periods in assessing the operation of the control device and associated control system.</p>	<p>40 CFR Section 63.7535(b) and (c); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>The Permittee shall maintain, at a minimum, the following information in the files: 1) the occurrence and duration of each startup or shutdown when the startup or shutdown causes the source to exceed any applicable emission limitation in the relevant emission standards; 2) the occurrence and duration of each malfunction of the emission unit or air pollution control or monitoring equipment; 3) all maintenance performed on the pollution control and monitoring equipment; 4) actions taken during periods of startup or shutdown when the source exceeded applicable emission limits in a relevant standard and when such actions are different from the procedures specified in the affected source's startup, shutdown, and malfunction plan (SSMP); or actions taken during period of malfunction when the actions taken are different from the procedures specified in the SSMP;</p>	<p>40 CFR Section 63.10(b)(2); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

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<p>5) all information necessary to demonstrate conformance with the affected source's SSMP when all actions taken during SSM are consistent with procedures specified in the SSMP;</p> <p>6) each period during which a continuous monitoring system (CMS) is malfunctioning or inoperative;</p> <p>7) all required measurements needed to demonstrate compliance with a relevant standard;</p> <p>8) all results of performance test, CMS performance evaluations, and opacity and visible emission observations;</p> <p>9) all measurements as may be necessary to determine the conditions of performance tests and performance evaluations;</p> <p>10) all CMS calibration checks;</p> <p>11) all adjustments and maintenance performed on CMS;</p> <p>12) any information demonstrating whether a source is meeting the requirements for a waiver of record keeping or reporting requirements under this part;</p> <p>13) all documents supporting initial notifications and notifications of compliance status.</p>	<p>40 CFR Section 63.10(b)(2); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>The Permittee shall maintain records of:</p> <p>1). All required CMS measurements (including monitoring data recorded during unavoidable CMS breakdowns and out-of-control periods);</p> <p>2). The date and time identifying each period during which the CMS was inoperative except for zero (low-level) and high-level checks;</p> <p>3). The date and time identifying each period during which the CMS was out of control, as defined in 40 CFR Section 63.8(c)(7);</p> <p>4). The specific identification (i.e., the date and time of commencement and completion) of each period of excess emissions and parameter monitoring exceedances, as defined in subpart DDDDD, that occurs during startups, shutdowns, and malfunctions of the boilers;</p> <p>5). The specific identification (i.e., the date and time of commencement and completion) of each time period of excess emissions and parameter monitoring exceedances, as defined in subpart DDDDD, that occurs during periods other than startups, shutdowns, and malfunctions of the boilers;</p>	<p>40 CFR Section 63.10(c); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>6). The nature and cause of any malfunction (if known);</p> <p>7). The corrective action taken or preventive measures adopted;</p> <p>8). The nature of the repairs or adjustments to the CMS that was inoperative or out of control;</p> <p>9). The total process operating time during the reporting period; and</p> <p>10). All procedures that are part of a quality control program developed and implemented for CMS under 40 CFR Section 63.8(d).</p> <p>In order to satisfy the above requirements 6-8 and to avoid duplicative recordkeeping efforts, the Permittee may use the boiler's SSMP or records kept to satisfy the recordkeeping requirements of the SSMP specified in 40 CFR Section 63.6(e), provided that such plan and records adequately address the above requirements 6-8.</p>	<p>40 CFR Section 63.10(c); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>If actions taken during a startup or shutdown (and the startup or shutdown causes the source to exceed any applicable emission limitation in the relevant emission standards) or malfunction of an affected source are consistent with the procedures specified in the SSMP, then the Permittee shall state such information in a startup, shutdown, and malfunction report. Actions taken to minimize emissions during such startups, shutdowns and malfunctions shall be summarized in the report. Reports shall only be required if a startup or shutdown caused the source to exceed any applicable emission standards, or if a malfunction occurred during the reporting period. Such reports shall be delivered or postmarked by the 30th day following the end of each calendar half year.</p>	<p>40 CFR Section 63.10(d)(5)(i); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>If an action taken by the Permittee during a startup or shutdown that caused the source to exceed any applicable emission limitation in the relevant emission standards, or during a malfunction is not consistent with the procedures specified in the SSMP, then the Permittee shall report the actions taken for that event with an immediate report within 2 working days after commencing actions inconsistent with the plan, followed by a letter within 7 working days after the end of the event. The immediate report, within 2 days, shall consist of a telephone call or fax and shall report the actions taken for the event. The letter, to be submitted within 7 days, must contain name, title, and signature of a responsible official who is certifying its accuracy, explaining the circumstances of the event, the reasons for not following the SSMP, describing all excess emissions and/or parameter monitoring exceedances which are believed to have occurred, and actions taken to minimize emissions.</p>	<p>40 CFR Section 63.6(e)(3)(iv); 40 CFR Section 63.10(d)(5)(ii); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

<p>The Permittee shall keep the following records: 1). A copy of each notification and report that was submitted to comply with subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status or Semi-Annual Compliance Report that was submitted, according to the requirements in 40 CFR Section 63.10(b)(2)(xiv); 2). The records in 40 CFR Section 63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction; and 3). Records of performance tests, fuel analyses, or other compliance demonstrations, performance evaluations, and opacity observations as required in 40 CFR Section 63.10(b)(2)(viii).</p>	<p>40 CFR Section 63.7555(a); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>The Permittee shall keep the records required in Table 8 of subpart DDDDD including records of all monitoring data and calculated averages for applicable operating limits such as opacity, pressure drop, CO, and pH to show continuous compliance with each emission limit, operating limit, and work practice standard that is applicable.</p>	<p>40 CFR Section 63.7555(c); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>Fuel Records: The Permittee must keep records of the type and amount of all fuels burned in each boiler or process heater during the reporting period to demonstrate that all fuel types and mixtures of fuels burned would result in lower emissions of HCl and mercury, than the emission limit for each pollutant.</p>	<p>40 CFR Section 63.7540(a)(2); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>If the Permittee plans to burn a new type of fuel, the Permittee must recalculate the HCl emission rate using Equation 9 of 40 CFR Section 63.7530 according to 40 CFR Section 63.7540(a)(3)(i) through (iii) and the mercury emission rate using Equation 11 of 40 CFR Section 63.7530 according to 40 CFR Section 63.7540(a)(7)(i) through (iii). A permit amendment will still be needed to authorize any new fuel type not authorized by this permit.</p>	<p>40 CFR Section 63.7540(a)(3) and (a)(7); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>The Permittee must also keep the following records for each boiler: 1). Monthly fuel use by each boiler, including the type(s) of fuel and amount(s) used; 2). A copy of all calculations and supporting documentation of HCl emission rates, using Equation 9 of 40 CFR Section 63.7530, that were done to demonstrate compliance with the HCl emission limit. Supporting documentation should include results of any fuel analyses and basis for the estimates of maximum chlorine fuel input or HCl emission rates. The Permittee can use the results from one fuel analysis for multiple boilers provided they are all burning the same fuel type. However, the Permittee must calculate chlorine fuel input, or HCl emission rate, for each boiler.</p>	<p>40 CFR Section 63.7555(d); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>3). A copy of all calculations and supporting documentation of mercury emission rates, using Equation 11 of 40 CFR Section 63.7530, that were done to demonstrate compliance with the mercury emission limit. Supporting documentation should include results of any fuel analyses and basis for the estimates of maximum mercury fuel input or mercury emission rates. The Permittee can use the results from one fuel analysis for multiple provided they are all burning the same fuel type. However, the Permittee must calculate mercury fuel input, or mercury emission rates, for each boiler.</p>	<p>40 CFR Section 63.7555(d); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>The Permittee's records must be 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 must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The Permittee shall keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR Section 63.10(b)(1). The Permittee can keep the records off site for the remaining 3 years. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche.</p>	<p>40 CFR Section 63.7560; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>NSPS SUBMITTALS</p>	<p>hdr</p>
<p>Notification of any physical or operational change which increases emission rate: due 60 days (or as soon as practical) before the change is commenced.</p>	<p>40 CFR Section 60.7(a)(4); Minn. R. 7019.0100, subp. 1; Minn. R. 7011.0565</p>
<p>NESHAP SUBMITTALS</p>	<p>hdr</p>
<p>The Permittee shall submit all of the notifications in 40 CFR Sections 63.7(b) and (c), 63.8 (e), (f)(4) and (6), and 63.9(b) through (h) that apply by the dates specified.</p>	<p>40 CFR Section 63.7545(a); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>The Permittee shall report each deviation from an applicable emission limit, operating limit, and work practice standard in Tables 1 through 4 of subpart DDDDD that apply. The Permittee must also report each instance during a startup, shutdown, or malfunction when each applicable emission limit, operating limit, and work practice standard was not met. These instances are deviations from the emission limits and work practice standards in subpart DDDDD. The Permittee shall report these deviations according to the requirements in 40 CFR Section 63.7550.</p>	<p>40 CFR Section 63.7540(b); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

<p>Consistent with 40 CFR Sections 63.6(e) and 63.7(e)(1), deviations from requirements of 40 CFR pt. 63 that occur during a period of startup, shutdown, or malfunction are not violations if the Permittee can demonstrate to the EPA Administrator's satisfaction that they were operating in accordance with their SSMP. The EPA Administrator will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in 40 CFR Section 63.6(e).</p>	<p>40 CFR Section 63.7540(d); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>Deviations Report. The Permittee must report all deviations as defined in subpart DDDDD with the Notifications of Deviations Endangering Human Health or the Environment or in the Semi-Annual Deviations Report required elsewhere in this permit, whichever is applicable.</p>	<p>40 CFR Section 63.7550(f); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>Immediate Startup, Shutdown, and Malfunction Report (SSMR): The Permittee must submit an immediate SSMR if EU001 had a startup, shutdown, or malfunction during the reporting period that is not consistent with the Permittee's SSMP, and the boiler exceeded any applicable emission limitation in subpart DDDDD.</p> <p>The report must contain:</p> <ol style="list-style-type: none"> 1). Actions taken for the event; 2). The name, title, and signature of a responsible official who is certifying its accuracy, 3). An explanation of the circumstances of the event; 4). The reasons for not following the SSMP; and 5). Whether any excess emissions and/or parameter monitoring exceedances are believed to have occurred. <p>The Permittee must submit the report:</p> <ol style="list-style-type: none"> 1). By fax or telephone within 2 working days after starting actions inconsistent with the plan; and 2). By letter within 7 working days after the end of the event unless the Permittee has made alternative arrangements with the Administrator. 	<p>40 CFR Section 63.7550(a), Table 9, item 2; 40 CFR Sections 63.6(e)(3)(iv) and 63.10(d)(5)(ii); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>Periodic Startup, Shutdown, and Malfunction Reports (SSMP Reports). The Permittee shall submit SSMP Reports only if there is an occurrence of startup, shutdown, or malfunction during the reporting period and shall be delivered or postmarked by the 30th day following the end of each calendar half year. The content of the report shall be as required by 40 CFR Section 63.10(d)(5)(i).</p>	<p>40 CFR Section 63.10(d)(5)(i); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>Any change in the information already provided under 40 CFR Section 63.9 shall be provided in writing within 15 calendar days after the change.</p>	<p>40 CFR Section 63.9(j); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>STARTUP, SHUTDOWN AND MALFUNCTION PLAN (SSMP)</p>	<p>hdr</p>
<p>Malfunctions: Malfunctions shall be corrected as soon as practicable after their occurrence.</p>	<p>40 CFR Section 63.6(e)(1)(ii); Minn. R. 7011.7000; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>The Permittee shall prepare a written Startup, Shutdown, and Malfunction Plan (SSMP) for each of the emission units, including associated control and monitoring equipment, subject to Maximum Control Technology Standards by the applicable MACT standard compliance date. The SSMP shall be prepared in accordance with 40 CFR Section 63.6(e)(3) and include requirements specified therein. The SSMP must be located at the plant site and must be kept updated. When the SSMP is updated, the Permittee must keep all previous versions of the SSMP for a period of 5 years. The Permittee must submit the SSMP when required.</p>	<p>40 CFR Section 63.6(e)(3)(i); 40 CFR Section 63.6(e)(3)(v); Minn. R. 7011.7000; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>During periods of startup, shutdown, and malfunction, the Permittee must operate and maintain EU001 (including associated air pollution control and monitoring equipment) in accordance with the procedures specified in the SSMP developed under 40 CFR Section 63.6(e)(3)(i).</p>	<p>40 CFR Section 63.7540(c); 40 CFR Section 63.6(e)(1) and (3)(ii); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>When actions taken by the Permittee during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) are consistent with the procedures specified in the SSMP, the Permittee must keep records for that event which demonstrate that the procedures specified in the plan were followed. These records may take the form of a checklist, or other effective form of recordkeeping that confirms conformance with the startup, shutdown, and malfunction plan for that event. In addition, the Permittee must keep records of these events as specified in 40 CFR Section 63.10(b). Furthermore, the Permittee shall confirm that actions taken during the relevant reporting period during periods of startup, shutdown, and malfunction were consistent with the SSMP in the Semi-Annual startup, shutdown, and malfunction report required in 40 CFR Section 63.10(d)(5).</p>	<p>40 CFR Section 63.6(e)(3)(iii); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>If an action taken by the Permittee during a startup, shutdown, or malfunction (including an action taken to correct a malfunction) is not consistent with the procedures specified in the SSMP, and the boiler exceeds any applicable emission limitation in the relevant emission standard, then the Permittee must record the actions taken for that event and must report such actions within 2 working days after commencing actions inconsistent with the plan, followed by a letter within 7 working days after the end of the event, in accordance with 40 CFR Section 63.10(d)(5).</p>	<p>40 CFR Section 63.6(e)(3)(iv); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy
 Permit Number: 05301187 - 001

Subject Item: EU 003 Emergency Back-up Generator

Associated Items: SV 001 Combined stack for EU 001, EU 003

What to do	Why to do it
EMISSION LIMITS	hdr
Carbon Monoxide: less than or equal to 0.0077 lbs/kilowatt-hour	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000; 40 CFR Section 60.4202(a)(2)
Total Particulate Matter: less than or equal to 0.00044 lbs/kilowatt-hour	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Total Particulate Matter: less than or equal to 0.00044 lbs/kilowatt-hour	40 CFR Section 60.4202(a)(2)
Particulate Matter < 10 micron: less than or equal to 0.0003 lbs/kilowatt-hour	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Nitrogen Oxides: less than or equal to 0.014 lbs/kilowatt-hour	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000; 40 CFR Section 60.4202(a)(2)
Sulfur Dioxide: less than or equal to 0.5 lbs/million Btu heat input	Minn. R. 7011.2300, subp. 2
Opacity: less than or equal to 20 percent opacity once operating temperatures have been attained.	Minn. R. 7011.2300, subp. 1
OPERATING CONDITIONS	hdr
The Permittee shall operate and maintain the unit in accordance with the standards as required by 40 CFR Section 60.4205, according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. Settings for the unit may not be changed unless permitted by the manufacturer.	40 CFR Section 60.4206; 40 CFR Section 60.4211(a)
<p>Fuel type: Diesel only by design. Diesel fuel shall meet the requirements of 40 CFR Section 80.510(a), which requires that diesel fuel have a maximum sulfur content of 500 ppm/gal and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent. This rule is applicable beginning October 1, 2007.</p> <p>Beginning October 1, 2010, diesel fuel shall meet the requirements of 40 CFR Section 80.510(b), which requires that diesel fuel have a maximum sulfur content of 15 ppm/gal and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.</p> <p>The Permittee may petition the Administrator for approval to use existing non-compliant fuel inventories for up to 6 months or until exhausted, whichever comes first.</p>	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000; 40 CFR Section 60.4207(a); 40 CFR Section 80.510(a) - (c)
Sulfur Content of Fuel: less than or equal to 0.15 percent by weight	Title I Condition: 40 CFR Section 52.21(k) and Minn. R. 7007.3000
The Permittee shall comply with the emission standards listed above, and as specified in 40 CFR Section 4205(b), by purchasing an engine certified to the emission standards in 40 CFR Section 4205(b) for the same model year and maximum engine power. The engine shall be installed and configured according to the manufacturer's specifications.	40 CFR Section 60.4211(c)
<p>The Permittee may operate EU 003 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; or the insurance company associated with the engine. Maintenance checks and readiness testing for the emergency engine is limited to 100 hours per year. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing. A petition is not required if the Permittee maintains records indicating that the Federal, State or local standards require maintenance and testing of emergency ICE beyond 100 hours per year.</p> <p>There is no time limit on the use of emergency stationary ICE in emergency situations. Any operation other than emergency operation, maintenance, and testing, as permitted, is prohibited.</p>	40 CFR Section 60.4211(e)
Operation Limitations: After December 31, 2008, the Permittee may not install stationary CI ICE (excluding fire pumps) that do not meet applicable requirements for 2007 model year engines.	40 CFR Section 60.4208(a)
MONITORING REQUIREMENTS	hdr
Monitoring - Hours of Operation: The Permittee shall install a non-resettable hour meter prior to startup of engine.	40 CFR Section 60.4209(a)
Monitoring - Particulate Filter: The Permittee may choose to equip the engine with a diesel particulate filter. If a diesel particulate filter is installed, it shall be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.	40 CFR Section 60.4209(b)

TABLE A: LIMITS AND OTHER REQUIREMENTS

A-15 07/26/07

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

RECORDKEEPING REQUIREMENTS	hdr
Hours of Operation: The Permittee shall maintain documentation on site that the unit is an emergency 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, subp. 4 & 5
The Permittee shall obtain and maintain records from the vendor that show the engine will meet the Particulate Matter < 10 microns emission limit listed above.	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall maintain records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner shall record the time of operation of the engine and the reason the engine was in operation during that time.	40 CFR Section 60.4214(b); Minn. R. 7007.0800, subp. 4 & 5
If the Generator is equipped with a diesel particulate filter, the Permittee shall keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached.	40 CFR Section 60.4214(c)
Fuel Supplier Certification: The Permittee shall obtain and maintain a fuel supplier certification for each shipment of diesel fuel, certifying that the sulfur content does not exceed 0.15% by weight.	Minn. R. 7007.0800, subps. 4 & 5
Initial Notification: If the combustion engine is an emergency stationary internal combustion engine, the Permittee is not required to submit an initial notification under 40 CFR pt. 60, subp. IIII.	40 CFR Section 60.4214(b)

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

Subject Item: EU 005 Silo 1 & 2

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

SV 003 Silo 1 & 2 stack

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.0035 grains/dry standard cubic foot . This limit is more stringent that Minn. R. 7011.0715, subp. 1(A) which also applies.	Title I Condition: 40 CFR Section 52.21(j) and Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.0035 grains/dry standard cubic foot	Title I Condition: 40 CFR Section 52.21(j) and Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
CONTROL EQUIPMENT REQUIREMENTS (see subject item CE 005 for specific control equipment operating requirements)	hdr
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 and Minn. R. 7007.3000
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 99 percent control efficiency	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000
PERFORMANCE TESTING REQUIREMENTS	hdr
Initial Performance Test: due 180 days after Initial Startup of EU 001 to measure Total Particulate Matter emissions.	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup of EU 001 to measure Particulate Matter < 10 micron emissions.	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup of EU 001 to measure Opacity.	Minn. R. 7017.2020, subp. 1

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

Subject Item: EU 006 Chipper

Associated Items: CE 006 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

SV 004 Combined Stack for EU 006, 007, 008

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.0035 grains/dry standard cubic foot . This limit is more stringent that Minn. R. 7011.0715, subp. 1(A) which also applies.	Title I Condition: 40 CFR Section 52.21(j) and Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.0035 grains/dry standard cubic foot	Title I Condition: 40 CFR Section 52.21(j) and Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
CONTROL EQUIPMENT REQUIREMENTS (see subject item CE 006 for specific control equipment operating requirements)	hdr
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 and Minn. R. 7007.3000
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 99 percent control efficiency	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000
PERFORMANCE TESTING REQUIREMENTS	hdr
Initial Performance Test: due 180 days after Initial Startup of EU 001 to measure Total Particulate Matter emissions.	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup of EU 001 to measure Particulate Matter < 10 micron emissions.	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup of EU 001 to measure Opacity.	Minn. R. 7017.2020, subp. 1

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

Subject Item: EU 007 Metering Bins

Associated Items: CE 007 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

SV 004 Combined Stack for EU 006, 007, 008

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.0035 grains/dry standard cubic foot . This limit is more stringent that Minn. R. 7011.0715, subp. 1(A) which also applies.	Title I Condition: 40 CFR Section 52.21(j) and Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.0035 grains/dry standard cubic foot	Title I Condition: 40 CFR Section 52.21(j) and Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
CONTROL EQUIPMENT REQUIREMENTS (see subject item CE 007 for specific control equipment operating requirements)	hdr
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 and Minn. R. 7007.3000
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 99 percent control efficiency	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000
PERFORMANCE TESTING REQUIREMENTS	hdr
Initial Performance Test: due 180 days after Initial Startup of EU 001 to measure Total Particulate Matter emissions.	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup of EU 001 to measure Particulate Matter < 10 micron emissions.	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup of EU 001 to measure Opacity.	Minn. R. 7017.2020, subp. 1

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

Subject Item: EU 008 Receiving Hopper

Associated Items: CE 008 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

SV 004 Combined Stack for EU 006, 007, 008

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.0035 grains/dry standard cubic foot . This limit is more stringent that Minn. R. 7011.0715, subp. 1(A) which also applies.	Title I Condition: 40 CFR Section 52.21(j) and Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.0035 grains/dry standard cubic foot	Title I Condition: 40 CFR Section 52.21(j) and Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
OPERATING REQUIREMENTS	hdr
Operating Hours: less than or equal to 12 hours/day , 6 days per week.	Title I Condition: 40 CFR Section 52.21(k) and Minn. R. 7007.3000
Daily Recordkeeping. On each day of operation of the facility, the Permittee shall record the hours of operation of the emission unit based on written usage logs.	Title I Condition: 40 CFR Section 52.21(k) and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 and 5
CONTROL EQUIPMENT REQUIREMENTS (see subject item CE 008 for specific control equipment operating requirements)	hdr
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 and Minn. R. 7007.3000
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 99 percent control efficiency	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000
PERFORMANCE TESTING REQUIREMENTS	hdr
Initial Performance Test: due 180 days after Initial Startup of EU 001 to measure Total Particulate Matter emissions.	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup of EU 001 to measure Particulate Matter < 10 micron emissions.	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup of EU 001 to measure Opacity.	Minn. R. 7017.2020, subp. 1

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

Subject Item: CE 001 Fabric Filter - High Temperature, i.e., T>250 Degrees F

Associated Items: EU 001 Main Boiler

What to do	Why to do it
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.	40 CFR Section 64.7(b); Minn. R. 7017.0200; Minn. R. 7007.0800, subp. 14
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 10 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 at least once every 24 hours when in operation.	Title I Condition: 40 CFR Section 52.21; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14; Minn. R. 7017.2025, subp. 3
Opacity of greater than 15%, using a 6-minute average, is considered an excursion under 40 CFR Section 64.6(c)(2).	40 CFR Section 64.3; Minn. R. 7017.0200; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading and whether or not the recorded pressure drop was within the range specified in this permit.	Title I Condition: 40 CFR Section 52.21; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 and 5
The Permittee shall operate and maintain a bag leak detector at all times that the fabric filter, and emission unit controlled by the fabric filter, is in operation. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation.	Title I Condition: 40 CFR Section 52.21; Minn. R. 7007.3000; 40 CFR Section 64.7(b); Minn. R. 7017.0200
The Permittee shall install, maintain and operate a device that continuously indicates and records the status of the bag leak detector.	Title I Condition: 40 CFR Section 52.21; Minn. R. 7007.3000; 40 CFR Section 64.3; Minn. R. 7017.0200
The Permittee shall maintain a continuous hard copy readout or computer disk file of the bag leak detector readings.	40 CFR Section 64.9(b); Minn. R. 7017.0200; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Continuous Monitoring: The Permittee shall continuously, or at a minimum once every 15 minutes, monitor the opacity of the baghouse exhaust. (See Subject Item MR 001 for specific COMS operating requirements.)	40 CFR Section 64.4(b)(4)(ii); Minn. R. 7017.0200; Minn. Stat. Section 116.07, subd. 4a; 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 alarm for the bag leak detector is triggered; - the opacity exceeds the excursion range; - 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, return the opacity to below the excursion range, investigating the cause of the bag leak detector alarm, 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 and for detecting bag leaks as required by this permit. The monitoring equipment must be installed, in use, and properly maintained, including maintaining the necessary parts for routine repairs of the monitoring equipment, when the monitored fabric filter is in operation.	40 CFR Section 64.7(b); Minn. R. 7017.0200; Minn. R. 7007.0800, subp. 4; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
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 that are subject to wear or plugging, for example: bearings, belts, hoses, fans, nozzles, orifices, and ducts. The Permittee shall maintain a written record of these inspections and any corrective actions taken resulting from the inspection.	40 CFR Section 64.3; Minn. R. 7017.0200; Minn. R. 7007.0800, subp. 4, 5 and 14; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Annual Inspections: At least once per calendar year, or more frequently if required by the manufacturer, the Permittee shall inspect the control equipment components not covered by the quarterly inspections. This includes, but is not limited to, components that are not subject to wear or plugging including structural components, housings, and hoods. The Permittee shall maintain a written record of the inspection and any corrective actions taken resulting from the inspection.	40 CFR Section 64.3; Minn. R. 7017.0200; Minn. R. 7007.0800, subp. 4, 5 and 14; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

A-21 07/26/07

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing opacity level which is considered an excursion, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring changes.	40 CFR Section 64.7(e); Minn. R. 7017.0200; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
As required by 40 CFR Section 64.9(a)(2), for the Semi-Annual Deviations Report listed in Table B of this permit and/or the Notification of Deviations Endangering Human Health and the Environment listed earlier in Table A of this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents.	40 CFR Section 64.9(a)(2); Minn. R. 7017.0200; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.	40 CFR Section 64.9(b); Minn. R. 7017.0200; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

Subject Item: CE 002 Selective Noncatalytic Reduction for NOX**Associated Items:** EU 001 Main Boiler

What to do	Why to do it
Quarterly Inspections: At least once per calendar quarter, or more frequently if required by the manufacturer, the Permittee shall inspect the control equipment components that are subject to wear or plugging, for example: bearings, belts, hoses, fans, nozzles, orifices, and ducts. 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 Inspections: At least once per calendar year, or more frequently if required by the manufacturer, the Permittee shall inspect the control equipment components not covered by the quarterly inspections. This includes, but is not limited to, components that are not subject to wear or plugging including structural components, housings, and hoods. 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

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

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

Associated Items: EU 005 Silo 1 & 2

What to do	Why to do it
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
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 10 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 at least once every 24 hours when in operation.	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14
Visible Emissions: The Permittee shall check the fabric filter stack (SV 003) 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: 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14
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: 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 and 5
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 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

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

Subject Item: CE 006 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

Associated Items: EU 006 Chipper

What to do	Why to do it
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
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 10 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 at least once every 24 hours when in operation.	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14
Visible Emissions: The Permittee shall check the fabric filter stack (SV 003) 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: 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14
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: 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 and 5
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 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

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

Subject Item: CE 007 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

Associated Items: EU 007 Metering Bins

What to do	Why to do it
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
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 10 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 at least once every 24 hours when in operation.	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14
Visible Emissions: The Permittee shall check the fabric filter stack (SV 003) 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: 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14
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: 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 and 5
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 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

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

Subject Item: CE 008 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

Associated Items: EU 008 Receiving Hopper

What to do	Why to do it
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
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 10 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 at least once every 24 hours when in operation.	Title I Condition: 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14
Visible Emissions: The Permittee shall check the fabric filter stack (SV 003) 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: 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14
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: 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 and 5
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 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

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

Subject Item: FS 001 Paved Roads

What to do	Why to do it
<p>The Permittee shall follow the actions and recordkeeping specified below for control of fugitives:</p> <p>The Permittee shall use either of the two methods below for fugitive dust control on the facility roads:</p> <p>1. Sweeping/Watering: Under dry pavement conditions, paved plant roads shall be swept weekly or watered weekly. Sweeping and/or watering is not required if pavement is covered by snow or ice. Watering shall be accomplished using a sprinkler system or other means of water application</p> <p>OR</p> <p>2. Sweeping/Wheel Wash: Under dry pavement conditions, if temperature is less than 32 degrees F, paved plant roads shall be swept weekly. Under dry pavement conditions, and if temperature is greater than 32 degrees, a wheel wash system shall be operating on incoming delivery trucks. The wheel wash system is not required to be operated if the pavement is covered by snow or ice.</p>	<p>Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000</p>
<p>Recordkeeping for Fugitive Emissions Control: The Permittee shall maintain a log of the fugitive emissions control. The log shall include daily records of:</p> <ul style="list-style-type: none"> - whether and which areas are snow and/or ice covered - whether and which areas are dry - dates of sweeping and description of areas swept - dates of watering and description of areas watered - amount of water applied when watered 	<p>Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy
 Permit Number: 05301187 - 001

Subject Item: MR 001 Opacity Monitor

Associated Items: EU 001 Main Boiler

What to do	Why to do it
OPERATING REQUIREMENTS	hdr
<p>Continuous Operation: COMS 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 COMS must not be bypassed except in emergencies where failure to bypass would endanger human health, safety, or plant equipment.</p> <p>Acceptable monitor downtime includes reasonable periods as listed in Items A, B, C and D of Minn. R. 7017.1090, subp. 2.</p>	Minn. R. 7017.1090, subp. 1; 40 CFR Section 60.13(e); 40 CFR Section 64.7(c); Minn. R. 7017.0200
<p>The Permittee shall maintain and operate each COMS as specified in 40 CFR Section 63.8, or in Subpart DDDDD, and in a manner consistent with good air pollution control practices. In addition, the Permittee must:</p> <ol style="list-style-type: none"> 1. Maintain and operate each COMS as specified in 40 CFR Section 63.6(e)(1); 2. Keep the necessary parts for routine repairs of each affected COMS equipment readily available; and 3. Develop and implement a written SSMP for each COMS as specified in 40 CFR Section 63.6(e)(3). 	40 CFR Section 63.8(c)(1); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
<p>All continuous monitoring systems and monitoring devices shall be installed such that representative measurements of emissions or process parameters from the boiler are obtained. Procedures for the location of continuous monitoring systems are contained in PS1 (Appendix B of 40 CFR pt. 60).</p>	40 CFR Section 63.8(c)(2)(i); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
<p>The Permittee must ensure that the read out (that portion of the COMS) that provides a visual display or record, or other indication of operation, from any OMS required for compliance with the emission standard is readily accessible for operational control or inspection by the operator of the equipment.</p>	40 CFR Section 63.8(c)(2)(ii); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
<p>All COMS shall be installed, operational, and the data verified as specified in Subpart DDDDD either prior to or in conjunction with conducting performance tests under 40 CFR Section 63.7. Verification of operational status shall, at a minimum, include completion of the manufacturer's written specifications or recommendations for installation, operation, and calibration of the system.</p>	40 CFR Section 63.8(c)(3); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
<p>All COMS shall complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data for each successive 6-minute period.</p>	40 CFR Section 63.7525(b)(3); 40 CFR Section 63.8(c)(4)(i); Minn. R. 7017.1200, subp. 1, 2 & 3; 40 CFR Section 60.13(e)(1); 40 CFR Section 60.13(h)
<p>Reduction of Monitoring Data: The Permittee must reduce the monitoring data from each COMS as specified in 40 CFR Section 60.13(h) and 40 CFR Section 63.8(g)(1)-(4).</p>	40 CFR Section 63.8(g); 40 CFR Section 60.13(h)
<p>QA Plan Required: Develop and implement a written quality assurance plan which covers each COMS. The plan shall be on site and available for inspection within 30 days after monitor certification. The plan shall contain the written procedures listed in Minn. R. 7017.1210, subp. 1 and in 40 CFR Section 63.8(d)(2)(i)-(vi) and shall be kept on record for the life of the boiler as detailed in 40 CFR Section 63.8(d)(3).</p>	40 CFR Section 63.8(d)(2); Minn. R. 7017.1210, subp. 1; 40 CFR Section 64.7(b); Minn. R. 7017.0200
<p>COMS QA/QC: The owner or operator is subject to Performance Specifications (PS) 1 listed in 40 CFR pt. 60, Appendix B and shall operate, calibrate, and maintain each COMS according to the QA/QC procedures in Minn. R. 7017.1210. The span value of the COMS shall be between 60 and 80 percent.</p>	40 CFR Section 60.13(a); 40 CFR Section 63.7525(b)(1); Minn. R. 7017.1210; 40 CFR Section 64.7(b); Minn. R. 7017.0200
<p>COMS Daily Calibration Drift Check: The Permittee must automatically, intrinsic to the opacity monitor, check the zero and upscale (span) calibration drifts at least once daily. The acceptable range is as defined in 40 CFR pt. 60, Appendix B, PS-1.</p> <p>For COMS without automatic zero adjustments: The optical surfaces exposed to the effluent gases shall be cleaned prior to performing the zero and span drift adjustments.</p> <p>For COMS with automatic zero adjustments: The optical surfaces shall be cleaned when the cumulative automatic zero compensation exceeds 4 percent opacity. Minimum procedures must include an automated method for producing a simulated zero opacity condition and an upscale opacity condition as specified in 40 CFR 60.13(d)(2).</p>	Minn. R. 7017.1210, subp. 2; 40 CFR Section 60.13(d)(l) regarding COMS and 60.13(d)(2); 40 CFR Section 64.7(b); Minn. R. 7017.0200

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

COMS Calibration Error Audit: due before end of each half-year following COMS Certification Test. Conduct three point calibration error audits at least 3 months apart but no greater than 8 months apart. Conduct audits in accordance with Minn. R. 7017.1210, subp. 3.	Minn. R. 7017.1210, subp. 3; 40 CFR Section 64.7(b); Minn. R. 7017.0200
Attenuator Calibration: The Permittee shall have an independent testing company conduct calibrations of each of the neutral density filters used in the calibration error audit according to the procedure in Code of Federal Regulations, Title 40, Part 60, Appendix B, Section 7.1.3.1 within the time frame of opacity stability guaranteed by the attenuator manufacturer. The manufacturer's guarantee of stability shall be on site available for inspection.	Minn. R. 7017.1210, subp. 4; 40 CFR Section 64.7(b); Minn. R. 7017.0200
Performance Evaluation: The Permittee must conduct a performance evaluation of each COMS, according to the requirements of 40 CFR Section 63.8 and according to PS1 of 40 CFR pt. 60, Appendix B, before any performance test required under 40 CFR Section 63.7 is conducted, in time to submit the results of the performance evaluation as specified in 40 CFR Section 63.8(e)(5)(ii).	40 CFR Sections 63.7525(b)(2) and 63.7505(d)(1)(iii); 40 CFR Section 63.8(e)(4); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
RECORDKEEPING	hdr
The owner or operator must retain records of all COMS 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
For each COMS, the Permittee must keep the following records: 1. Records described in 40 CFR Section 63.10(b)(2)(vi)-(xi); 2. Monitoring data for COMS during a performance evaluation as required in 40 CFR Section 63.3(h)(7)(i) and (ii); 3. Previous (i.e., superseded) versions of the performance evaluation plan as required in 40 CFR Section 63.8(d)(3); and 4. Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.	40 CFR Section 63.7555(b); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
NOTIFICATIONS & SUBMITTALS	hdr
Additional Notifications for COMS: The Permittee shall furnish the written notifications as follows: 1. A notification of the date the performance evaluation under 40 CFR Section 63.8(e) is scheduled to begin, submitted simultaneously with the notification of the performance test date required under 40 CFR Section 63.7(b); 2. A notification that COMS data results will be used to determine compliance with the applicable opacity emission standard during a performance test required by 40 CFR Section 63.7 in lieu of Method 9 or other opacity emissions test method data, as allowed by 40 CFR Section 63.3(h)(7)(ii). The notification shall be submitted at least 60 calendar days before the performance test is scheduled to begin.	40 CFR Section 63.9(g); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Reporting Results of COMS Performance Evaluations: The Permittee shall furnish two or, upon request, three copies of a written report of the results of the COMS performance evaluation conducted under 40 CFR Section 63.8(e). The copies shall be furnished at least 15 calendar days before the performance test required under 40 CFR Section 63.7 is conducted.	40 CFR Sections 63.10(e)(2) and 63.8(e)(5); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
The Permittee shall record the monitoring data produced during a performance test required under 40 CFR Section 63.7 and shall submit a written report of the monitoring results. The report of COMS data shall be submitted simultaneously with the report of the performance test results required in 40 CFR Section 63.10(d)(2).	40 CFR Section 63.10(e)(4); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Continuous Opacity Monitor System (COMS): The Permittee shall install, calibrate, certify, maintain, and operate a Continuous Opacity Monitoring System (COMS) by the startup date of EU001. The COMS must meet the requirements in 40 CFR Section 63.7525(b)(1) through (7).	40 CFR Section 63.7525(b); 40 CFR Section 60.47c(a); Minn. R. 7011.0570
All COMS for measuring opacity shall be operated in accordance with the applicable procedures under Performance Specification (PS) 1 (Appendix B of 40 CFR pt. 60). The span value of the COMS shall be between 60 and 80 percent.	40 CFR Section 63.7525(b)(1); 40 CFR Section 60.47c(b); Minn. R. 7011.0570
Performance Evaluation: The Permittee must conduct a performance evaluation of each COMS, according to the requirements in 40 CFR Section 63.8 and according to PS 1 of 40 CFR pt. 60, Appendix B, before the performance test required under 40 CFR Section 63.7 is conducted in time to submit the results of the performance evaluation as specified in 40 CFR Section 63.8(e)(5)(ii).	40 CFR Sections 63.7525(b)(2) and 63.7505(d)(1)(iii); 40 CFR Section 63.8(e)(4); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
COMS Certification Test: due 60 days after achieving maximum capacity but not later than 180 days after initial startup. OR within 90 days after the due date of the first excess emissions report, whichever is more stringent.	40 CFR Section 60.8(a); Minn. R. 7017.1050, subp. 1

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

COMS Installation Notification: The Permittee shall submit a notification of installation due 60 days before installing the continuous opacity monitoring system. The notification shall include plans and drawings of the system.	Minn. R. 7017.1040, subp. 1
The Permittee shall submit the following COMS notifications and reports: 1). COMS Certification Test Plan: due 30 days before COMS Certification Test; 2). COMS Certification Test Pretest Meeting: due 7 days before COMS Certification Test; 3). COMS Certification Test Report: due 45 days after COMS Certification Test; and 4). COMS Certification Test Report - Microfiche or CD Copy: due 105 days after COMS Certification Test.	Minn. R. 7017.1060, subps. 1, 2, 3; Minn. R. 7017.1080, subps. 1, 2, 3, and 4

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

Subject Item: MR 002 NOx Monitor

Associated Items: EU 001 Main Boiler

What to do	Why to do it
Installation Notification: due 60 days before installing the NOx continuous emissions monitoring system. The notification shall include plans and drawings of the system.	Minn. R. 7017.1040, subp. 1
CEM Certification Test: due 60 days after achieving maximum capacity (production rate), but no later than 180 days after Initial Startup of EU 001, or within 90 days after the due date of the first excess emissions report, whichever is more stringent.	40 CFR Section 60.8(a); 40 CFR Section 60.13(b); Minn. R. 7017.1050, subp. 1
CEMS Certification Test Plan: due 30 days before CEMS Certification Test CEMS Certification Test Pretest Meeting: due 7 days before CEMS Certification Test CEMS Certification Test Report: due 45 days after CEMS Certification Test CEMS Certification Test Report - Microfiche Copy: due 105 days after CEMS Certification Test The Notification, Test Plan, and Test Report may be submitted in alternate format as allowed by Minn. R. 7017.1120, subp. 2	40 CFR Section 60.7(a)(5); Minn. R. 7017.1060, subp. 1-3; and Minn. R. 7017.1080, subp. 1-4
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.	40 CFR Section 60.13(e), Minn. R. 7017.1090, subp. 1
Monitoring Data: Reduce all NOx data to 1-hour averages, in accordance with 40 CFR Section 60.13(h). 1-hour averages shall be computed from four or more data points equally spaced over each 1-hour period.	40 CFR Section 60.13(h)
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 Part 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; 40 CFR pt. 60, App. F; section 3
CEMS QA/QC: The owner or operator of an affected facility is subject to the performance specifications listed in 40 CFR pt. 60, Appendix B and shall operate, calibrate, and maintain each CEMS according to the QA/QC procedures in 40 CFR pt. 60, Appendix F as amended and maintain a written QA/QC program available in a form suitable for inspection.	40 CFR pt. 60, Appendix F; 40 CFR Section 60.13(a)
CEMS Daily Calibration Drift Check: Permittees must automatically check the zero (low level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) calibration drifts at least once daily. The zero and span must, at a minimum, be adjusted whenever the drift exceeds two times the limit specified in 40 CFR pt. 60, Appendix B. 40 CFR pt. 60, Appendix F shall be used to determine out-of-control periods for the CEMS.	40 CFR pt. 60, Appendix F, section 4.1; 40 CFR Section 60.13(d)(1) regarding CEMS; Minn. R. 7017.1170, subp. 3
Cylinder Gas Audit: due before end of each calendar quarter following CEM Certification Test, except that a CGA is not required during any calendar half year in which a RATA was performed. The initial CGA must be performed within 180 days following certification of the CEMS. 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.	40 CFR pt. 60, Appendix F, section 5.1.2; 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.	40 CFR pt. 60, Appendix F, section 5.1.1; Minn. R. 7017.1170, subp. 5

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

Subject Item: MR 003 CO Monitor

Associated Items: EU 001 Main Boiler

What to do	Why to do it
OPERATING REQUIREMENTS	hdr
<p>The Permittee shall maintain and operate each CEMS as specified in 40 CFR Section 63.8, or in Subpart DDDDD, and in a manner consistent with good air pollution control practices. In addition, the Permittee must:</p> <ol style="list-style-type: none"> 1. Maintain and operate each CEMS as specified in 40 CFR Section 63.6(e)(1); 2. Keep the necessary parts for routine repairs of each affected CEMS equipment readily available; and 3. Develop and implement a written SSMP for each CEMS as specified in 40 CFR Section 63.6(e)(3). 	40 CFR Section 63.8(c)(1); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
All continuous monitoring systems and monitoring devices shall be installed such that representative measurements of emissions or process parameters from the boiler are obtained. Procedures for the location of continuous monitoring systems are contained in PS4A (Appendix B of 40 CFR pt. 60).	40 CFR Section 63.8(c)(2)(i); 40 CFR Section 63.7525(a) Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
The Permittee must ensure that the read out (that portion of the CEMS) that provides a visual display or record, or other indication of operation, from any CMS required for compliance with the emission standard is readily accessible for operational control or inspection by the operator of the equipment.	40 CFR Section 63.8(c)(2)(ii); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
All CEMS shall be installed, operational, and the data verified as specified in Subpart DDDDD either prior to or in conjunction with conducting performance tests under 40 CFR Section 63.7. Verification of operational status shall, at a minimum, include completion of the manufacturer's written specifications or recommendations for installation, operation, and calibration of the system.	40 CFR Section 63.8(c)(3); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Performance Evaluation: The Permittee shall conduct a performance evaluation of the CEMS according to the requirements in 40 CFR Section 63.8 and according to PS 4A of 40 CFR part 60, appendix B.	40 CFR Section 63.7525(a)(2); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
All CEMS shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.	40 CFR Section 63.7525(a)(3); 40 CFR Section 63.8(c)(4)(ii); Minn. R. 7017.1160, subp. 1, 2 & 3; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Reduction of Monitoring Data: The Permittee must reduce the monitoring data from each CEMS as specified in 40 CFR Section 63.8(g)(2).	40 CFR Section 63.7525(a)(4); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
QA Plan Required: Develop and implement a written quality assurance plan which covers each CEMS. The plan shall be on site and available for inspection within 30 days after monitor certification. The plan shall contain the written procedures listed in Minn. R. 7017.1170 subp. 2 and in 40 CFR Section 63.8(d)(2)(i)-(vi) and shall be kept on record for the life of the boiler as detailed in 40 CFR Section 63.8(d)(3).	40 CFR Section 63.8(d)(2); Minn. R. 7017.1210, subp. 1; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
CEMS QA/QC: The owner or operator is subject to Performance Specifications (PS) 4A listed in 40 CFR pt. 60, Appendix B, and according to the site-specific monitoring plan developed according to 40 CFR Section 63.7505(d) and shall operate, calibrate, and maintain each CEMS according to the QA/QC procedures in Minn. R. 7017.1170.	40 CFR Section 63.7505(d); Minn. R. 7017.1170; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
CEMS Daily Calibration Drift (CD) Test: The Permittee shall check the zero (low-level) and high-level CDs at least once daily in accordance with the written procedure specified in the performance evaluation plan developed under 40 CFR Section 63.8(e)(3)(i) and (ii). The zero (low-level) and high-level calibration drifts shall be adjusted, at a minimum, whenever the 24-hour zero (low-level) drift exceeds two times the limits of the applicable performance specification specified in the relevant standard. The system shall allow the amount of excess zero (low-level) and high-level drift measured at the 24-hour interval checks to be recorded and quantified whenever specified.	40 CFR Section 63.8(c)(6); Minn. R. 7017.1170, subp. 3; Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Cylinder Gas Audit: due before end of each calendar half-year following CEM Certification Test, except that a CGA is not required during any calendar half year in which a RATA was performed. The initial CGA must be performed within 180 days following certification of the CEMS. 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. check - 40 CFR pt. 60, Appendix F, section 5.1.2.	Minn. R. 7017.1170, subp. 4

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

Performance Evaluation: The Permittee must conduct a performance evaluation of each CEMS, according to the requirements of 40 CFR Section 63.8 and according to PS4A of 40 CFR pt. 60, Appendix B, before any performance test required under 40 CFR Section 63.7 is conducted, in time to submit the results of the performance evaluation as specified in 40 CFR Section 63.8(e)(5)(ii).	40 CFR Sections 63.7525(a)(2) and 63.7505(d)(1)(iii); 40 CFR Section 63.8(e)(4); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
RECORDKEEPING	hdr
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
For each CEMS, the Permittee must keep 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 relative accuracy test for CEMS as required in 40 CFR Section 63.8(f)(6)(i); and 4. Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.	40 CFR Section 63.7555(b); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
NOTIFICATIONS & SUBMITTALS	hdr
Additional Notifications for CEMS: The Permittee shall furnish the written notification of the date the performance evaluation under 40 CFR Section 63.8(e) is scheduled to begin, submitted simultaneously with the notification of the performance test date required under 40 CFR Section 63.7(b)	40 CFR Section 63.9(g); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Reporting Results of CEMS Performance Evaluations: The Permittee shall furnish a copy of a written report of the results of the CEMS performance evaluation, as required under 40 CFR Section 63.8(e), simultaneously with the results of the performance test required under 40 CFR Section 63.7, or within 60 days of completion of the performance evaluation if not test is required.	40 CFR Sections 63.10(e)(2) and 63.8(e)(5); Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2

TABLE B: SUBMITTALS

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Facility Name: Midtown Eco Energy
Permit Number: 05301187 - 001

Also, where required by an applicable rule or permit condition, send to the Permit Technical Advisor 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:

Mr. George Czerniak
Air and Radiation Branch
EPA Region V
77 West Jackson Boulevard
Chicago, Illinois 60604

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

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:

AQ Permit Technical Advisor
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.

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.

TABLE B: ONE TIME SUBMITTALS OR NOTIFICATIONS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

What to send	When to send	Portion of Facility Affected
Application for Permit Reissuance	due 180 days before expiration of Existing Permit	Total Facility
Fuel Analysis Plan	due 60 days before Fuel Analysis for EPA review and approval. The Permittee must include the information contained in 40 CFR Section 63.7521(b)(i) - (vi) in the fuel analysis plan.	EU001
Notification of compliance status	due 60 days after Performance Test and/or other initial compliance demonstrations required by subpart DDDDD according to 40 CFR Section 63.9(h)(2)(ii) and Section 63.7545(e). For each initial compliance demonstration, the Permittee must submit the NOCS, including all performance test results and fuel analyses, according to 40 CFR Section 63.10(d)(2). The NOCS report must contain all the information specified in paragraphs 40 CFR Section 63.7545(e)(1) through (9), as applicable.	EU001
Notification of the Actual Date of Initial Startup	due 15 days after Initial Startup of Main Boiler (EU 001).	EU001
Notification of the Date Construction Began	due 30 days after Start Of Construction of Main Boiler (EU 001). Submit the name and number of each unit and the date construction of each unit began.	EU001
Notification	due 120 days after Initial Startup of EU 003 (Emergency Back-up Generator). The Initial Notification shall include the information in 40 CFR Section 63.9(b)(2)(i) through (v), and a statement that the generator has no additional requirements and explain the basis of the exclusion.	EU003
Performance Test Notification (written)	due 30 days before Performance Test (for PM) for each performance test required by subpart DDDDD.	EU001
Performance Test Report	due 45 days after Performance Test and Fuel Analysis required by subpart DDDDD. This report should also verify that the operating limits for EU001 have not changed or shall provide documentation of revised operating parameters established according to 40 CFR Section 63.7530 and Table 7 of subpart DDDDD, as applicable. The reports for all subsequent performance tests and fuel analyses should include all applicable information required in 40 CFR Section 63.7550. In addition, the results of the performance test shall be submitted as part of the notification of compliance status required under 40 CFR Section 63.9(h). For performance tests, the Permittee shall follow the data analysis, recordkeeping, and reporting requirements in 40 CFR Section 63.7(g).	EU001
Relative Accuracy Test Audit (RATA) Notification	due 30 days before CEMS Relative Accuracy Test Audit (RATA)	MR002
Testing Frequency Plan	due 60 days after Initial Performance Test for Opacity. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on one-year (12 month), 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	EU005, EU006, EU007, EU008
Testing Frequency Plan	due 60 days after Initial Performance Test for Particulate Matter < 10 micron emissions. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on one-year (12 month), 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	EU005, EU006, EU007, EU008

TABLE B: ONE TIME SUBMITTALS OR NOTIFICATIONS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

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 one-year (12 month), 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	EU005, EU006, EU007, EU008
Testing Frequency Plan	due 60 days after Initial Performance Test to measure Sulfur Dioxide emissions. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on one-year (12 month), 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	EU001

TABLE B: RECURRENT SUBMITTALS

Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

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	MR002, MR003
Excess Emissions/Downtime Reports (EER's)	due 30 days after end of each calendar quarter following Initial Startup of EU 001 (Main Boiler) . 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.	Total Facility
Relative Accuracy Test Audit (RATA) Results Summary	due 30 days after end of each calendar quarter following CEM Certification Test; the RATA Results Summary is due only after each calendar quarter in which RATA was conducted.	MR002
COMS Calibration Error Audit Results Summary	due 30 days after end of each half-year following COMS Certification Test; the COMS Calibration Error Audit Results Summary is due 30 days after end of the calendar quarter in which the COMS calibration error audit was completed.	MR001
Semiannual Compliance Report	due 31 days after end of each calendar half-year following Startup 3). If the Permittee has a deviation from any emission limitation (emission limit and operating limit) or work practice standard during the reporting period, the report must contain the information in 40 CFR Section 63.7550(d) and (e), as applicable. If there were periods during which the CMSs were out-of-control, as specified in 40 CFR Section 63.8(c)(7), the report must contain the information in 40 CFR Section 63.7550(e); and 4). If the boiler had a startup, shutdown, or malfunction during the reporting period and the Permittee took actions consistent with the SSMP the compliance report must include the information in 40 CFR Section 63.10(d)(5)(i).	EU001
Semiannual Compliance Report	due 31 days after end of each calendar half-year following Startup. The first compliance report is due no later than January 31st or July 31st, whichever date is the first date following the end of the first calendar half after Initial Startup of the boiler. The Semi-Annual Compliance Report must contain the following: 1). Information required in 40 CFR Section 63.7550(c)(1) through (11); 2). If there are no deviations from any emission limitation (emission limit and operating limit) that apply and there are no deviations from the requirements for work practice standards in Table 8 of subpart DDDDD that apply, a statement that there were no deviations from the emission limitations and work practice standards during the reporting period. If there were no periods during which the CMSs were out-of-control as specified in 40 CFR Section 63.8(c)(7), a statement that there were no periods during which the CMSs were out-of-control during the reporting period; and	EU001

TABLE B: RECURRENT SUBMITTALS

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Facility Name: Midtown Eco Energy

Permit Number: 05301187 - 001

Semiannual Deviations Report	due 30 days after end of each calendar half-year following Permit Issuance. 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. If no deviations have occurred, the Permittee shall submit the report stating no deviations.	Total Facility
Compliance Certification	due 31 days after end of each calendar year following Permit Issuance (for the previous calendar year). To be submitted 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 B: Insignificant Activities List

Facility Name:Midtown Eco Energy

Permit Number: 05301187-001

Insignificant Activities and Applicable Requirements

The table below lists the insignificant activities that are allowed at the facility and their associated general applicable requirements.

Minn. R. 7007.1300, subpart	Rule Description of the Activity	Likely Applicable Requirement
3(l)	Individual emission units at a stationary source, each of which have a potential to emit the following pollutants less than: (1) 4,000 pounds per year of carbon monoxide, and (2) 2,000 pounds per year each of nitrogen oxide, sulfur dioxide, particulate matter, particulate matter less than 10 microns, VOCs (including hazardous air pollutant-containing VOCs), and ozone. <i>Midtown will have a cooling tower with potential to emit less than amounts specified above.</i>	Minn. R. 7011.0715