



Minnesota Pollution Control Agency

**Air Individual Permit
Part 70 Reissuance
10900011- 005**

Permittee: Rochester Public Utilities - Silver Lake

Facility name: Rochester Public Utilities - Silver Lake
425 W Silver Lake Road NE
Rochester, MN 55906
Olmsted County

Part 70 Reissuance: November 25, 2015

Expiration date: November 25, 2020

* All Title I Conditions do not expire

Permit characteristics: Federal; Part 70/ Major for NSR

Each new or revised condition designated "Title I Condition: 40 CFR pt.50.4 (SO2 SIP)" or "Title I Condition: 40 CFR pt. 50.6 (PM10 SIP)" is not effective or enforceable until approved by the U.S. Environmental Protection Agency (EPA) as a State Implementation Plan (SIP) revision under Title I of the Clean Air Act.

*The Permittee may continue to operate this facility after the expiration date of the permit, per the provision under Minn. R. 7007.0450, subp. 3.

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

This permit reissuance supersedes Air Emission Permit No. 10900011-004, and authorizes the Permittee to operate the stationary source at the address listed above unless otherwise noted in the permit. 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. Any additions or changes to conditions incorporated into Minnesota's State Implementation Plan (SIP) under 40 CFR § 52.1220, designated "Title I Condition: 40 CFR pt. 50.4 (SO2 SIP)" or "Title I Condition: 40 CFR pt. 50.6 (PM10 SIP)" must go through the federal SIP approval process before becoming effective. Terms used in the permit are as defined in the state air pollution control rules unless the term is explicitly defined in the permit.

Unless otherwise indicated, all the Minnesota rules cited as the origin of the permit terms are incorporated into the SIP under 40 CFR § 52.1220 and as such as are enforceable by EPA Administrator or citizens under the Clean Air Act.

Signature: *Carolina Espejel-Schutt*

This document has been electronically signed.

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

for the Minnesota Pollution Control Agency

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Permit issued: November 25, 2015
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1. Permit applications table

Subsequent permit applications:

Title description	Application receipt date	Action number
Major Amendment	09/17/2008	10900011-005
Reopening	11/09/2009	10900011-005
Administrative Amendment	11/14/2011	10900011-005
Part 70 Reissuance	02/07/2012	10900011-005
Major Amendment	04/13/2015	10900011-005

2. Where to send submittals

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

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

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

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

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

Send any application for a permit or permit amendment to:

Fiscal Services – 6th Floor
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

Also, where required by an applicable rule or permit condition, send to the Permit Document Coordinator notices of:

- a. Accumulated insignificant activities
- b. Installation of control equipment
- c. Replacement of an emissions unit, and
- d. Changes that contravene a permit term

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

3. Facility description and amendment description

The Rochester Public Utilities - Silver Lake (Facility) is located at 425 W Silver Lake Rd NE in Rochester, MN, Olmsted County, Minnesota.

The Silver Lake facility is an existing steam generating station consisting of two natural-gas fired boilers and one small natural-gas fired heating boiler. Steam produced at Silver Lake is sold to the Franklin Heating Station, a Minnesota General Partnership by Mayo Clinic (Mayo) via a high-pressure steam line from the facility to Mayo's Prospect Plant, where it is used to generate electricity via a steam turbine, with the waste heat used for building heating. The total amount of steam sold is limited to 150,000 pounds per hour (lb/hr), on a 12-month rolling average basis. The pollutants of concern are Nitrogen Oxides (NOx) and Carbon Monoxide (CO).

This permit action is for the reissuance of the Part 70 Permit with two rolled-in Major Amendments, a Reopening, and an Administrative Amendment. No construction or emissions increases are authorized by this permit action. The most recent Major Amendment (DQ #5197) incorporates changes in operation and reclassification of the facility. Silver Lake was previously permitted to operate all four boilers (EQUI1 – EQUI4) on coal. The boilers were used for electrical generation and steam service. The facility ceased coal firing permanently in 2013. Two of the boilers (EQUI1 and EQUI3) have been permanently retired. Silver Lake will no longer produce electricity for sale and will operate its remaining boilers on natural gas only. Due to these changes, this permit action includes revisions to the State Implementation Plan (SIP) requirements for sulfur dioxide (SO₂) and particulate matter less than 10 microns in diameter (PM₁₀) that will go into effect on the date that the Environmental Protection Agency (EPA) approves this revision into the SIP at 40 CFR § 52.1220.

4. Summary of subject items

SI ID: Description	Relationship Type	Related SI ID: Description
ACTV3: All AI's		
COMG1: Boilers, Units #2 and #3	has members	EQUI2, EQUI4
EQUI18: Steam Heating Boiler	sends to	STRU5: Steam- Heating Boiler stack
EQUI2: Boiler, Unit #2	sends to	STRU2: Boiler #2 Stack
EQUI4: Boiler, Unit #3	sends to	STRU3: Boiler #3 Stack
STRU1: Silver Lake Plant Building (tiered building)		

SI ID: Description	Relationship Type	Related SI ID: Description
STRU2: Boiler #2 Stack		
STRU3: Boiler #3 Stack		
STRU5: Steam- Heating Boiler stack		
TFAC1: Rochester Public Utilities - Silver Lake		

5. Limits and other requirements

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
TFAC 1	10900011	Rochester Public Utilities - Silver Lake	
	5.1.1		<p>State Implementation Plan Recordkeeping: Retain all records at the stationary source or at the RPU-Service Center Facility (4000 E. River Road NE) for a period of five (5) years from the date of the required monitoring, sample, measurement, or report that corresponds with a "Title I Condition: 40 CFR Section 50.4, SO2 SIP" requirement.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	5.1.2		<p>Permanent Records for SIP: The Permittee shall permanently maintain the following information together with all amendments, revisions, and modifications to this information:</p> <ol style="list-style-type: none"> 1. The Permittee shall maintain a file or files of information on the design, construction and operation of each emission facility, emission source, stack, structures pertinent to modeling for downwash, and any other information required to conduct SO2 ambient air quality modeling of emissions from the facility. 2. The Permittee shall maintain a file at the facility which includes all SO2 emission compliance demonstration plans which upon approval by the MPCA or EPA become integral and enforceable parts of the SIP. <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	5.1.3		<p>Deviations from requirements cited as "Title I Condition: 40 CFR Section 50.4, SO2 SIP" shall be reported semiannually with the Semiannual Deviations Report required by this permit. Reporting for these conditions shall occur even if there were no deviations for the reporting period.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
	5.1.4		<p>Reporting: The Permittee may undertake certain changes to the facility without obtaining a modification to the SIP. However, if the Permittee does make a change, and if the change in any way affects SO2 emissions (changes the amount or the concentration, velocity, direction, or location of SO2 emissions in a manner that is not consistent with the scenarios modeled for the SIP analysis) the Permittee shall notify the Commissioner prior to undertaking the change. The notification shall describe the change and why it does not require a modification of the SIP.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	5.1.5		<p>Changes NOT Requiring a Modification to the SIP: The Permittee is authorized to make changes to the facility in compliance with Minnesota air permit rules and without obtaining a modification to the SIP as long as the change does not increase, from any emission point, the SO2 emission rates (in lb/hr) allowed by this permit or overall SO2 emissions or adversely affect the conditions assumed in the air dispersion scenarios modeled for the SIP analysis. The dispersion modeling parameters for the worst-case scenario are described in Appendix B to this permit, and form the basis of the SO2 modeling.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	5.1.6		<p>Remodeling for Attainment Demonstration: Before making any physical changes or changes to the method of operation which may adversely affect the conditions assumed in the air dispersion scenarios modeled for the SIP analysis (worst-case scenario listed in an Appendix B to this permit), the Permittee shall demonstrate to the MPCA the SO2 plume dispersion characteristics following the physical change or change characteristics modeled using the parameters in the permit appendix. 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 of SO2.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
	5.1.7		<p>Activities Requiring a Modification to the SIP:</p> <p>Activities requiring a modification of the SIP prior to the Permittee commencing the activity include, but are not limited to, the following:</p> <ol style="list-style-type: none"> 1. Any change to stack emissions exit velocity and/or exit temperature which may adversely affect the conditions assumed in the air dispersion scenarios modeled for the SIP analysis; 2. Any change to the exit point heat content of stack emissions which may adversely affect the conditions assumed in the air dispersion scenarios modeled for the SIP analysis; 3. Any reduction to stack height below that contained in the appendix to this permit. 4. Any increase in stack exit diameter above that contained in the appendix to this permit; and 5. Any construction or modification of structures that increase the effective structural dimensions. <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	5.1.8		<p>General Operation and Maintenance Requirements for the SIP: The Permittee shall operate and maintain the process and control equipment in a manner that does not adversely affect the dispersion scenarios and parameters modeled for the SIP analysis (worst case scenario is listed in Appendix B).</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	5.1.9		<p>Operation of EQUI3 with CE008 and CE009 (EQUI3 subsequent to construction of Emission Reduction Project) is authorized under the following condition: A complete permit application that provides for a mechanism to achieve modeled compliance with the NAAQS and MAAQS has been received, and acknowledged via electronic mail or letter, by the Commissioner. The permit application must include the appropriate modeling runs to support the proposal. The application is due 30 days before initial startup of EQUI3 with CE008 and CE009.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
	5.1.10		<p>Submittal of Permit Application: due 30 days before Initial Startup of EQUI3 with CE008 and CE009. The application is part of the compliance plan for achieving compliance with the NAAQS. The Permittee shall submit a complete permit application which contains a specific proposal for changes which will result in modeled compliance with the NAAQS. The permit application must include the appropriate modeling runs to support the proposal.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	5.1.11		<p>Semiannual Deviations Report: due 30 days after end of each calendar half-year starting 07/22/1997 The first report covers January 1 - June 30, which is due by July 30 of each year. The second report covers July 1 - December 31, which is due by January 30 of each year. The report may be submitted quarterly at the option of the permittee. This report shall list deviations from all permit terms, including exceedances (not only those corresponding to Title I conditions). If no deviations have occurred, the Permittee shall submit the report stating no deviations. The report shall be submitted on a form approved by the Commissioner.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Minn. R. 7007.0800, subp. 6(A)(2), Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	5.1.12		<p>Permit Appendices: This permit contains appendices as listed in the permit Table of Contents. The Permittee shall comply with all requirements contained in Appendix A. Modeling Parameters in Appendix B are included for reference only as described elsewhere in Table A. Appendix B will no longer apply on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220. [Minn. R. 7007.0800, subp. 2]</p>

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
	5.1.13		<p>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.</p> <p>This permit shall not alter or affect the liability of the Permittee for any violation of applicable requirements prior to or at the time of permit issuance. [Minn. R. 7007.1800, (A)(2)]</p>
	5.1.14		<p>These requirements apply if a reasonable possibility (RP) as defined in 40 CFR Section 52.21(r)(6)(vi) exists that a proposed project, analyzed using the actual-to-projected-actual (ATPA) test (either by itself or as part of the hybrid test at Section 52.21(a)(2)(iv)(f)) and found to not be part of a major modification, may result in a significant emissions increase (SEI). If the ATPA test is not used for the project, or if there is no RP that the proposed project could result in a SEI, these requirements do not apply to that project. The Permittee is only subject to the Preconstruction Documentation requirement for a project where a RP occurs only within the meaning of Section 52.21(r)(6)(vi)(b).</p> <p>Even though a particular modification is not subject to New Source Review (NSR), or where there isn't a RP that a proposed project could result in a SEI, a permit amendment, recordkeeping, or notification may still be required by Minn. R. 7007.1150 - 7007.1500. [Minn. R. 7007.0800, subp. 2, Title I Condition: 40 CFR 52.21(r)(6) and Minn. R. 7007.3000]</p>

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
	5.1.15		<p>Preconstruction Documentation -- Before beginning actual construction on a project, the Permittee shall document the following:</p> <ol style="list-style-type: none"> 1. Project description 2. Identification of any emission unit (EU) whose emissions of an NSR pollutant could be affected 3. Pre-change potential emissions of any affected existing EU, and the projected post-change potential emissions of any affected existing or new EU. 4. 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 projected actual emissions, the amount of emissions excluded due to increases not associated with the modification and that the EU 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. [Minn. R. 7007.0800, subps. 4-5, Minn. R. 7007.1200, subp. 4, Title I Condition: 40 CFR 52.21(r)(6) and Minn. R. 7007.3000]</p>
	5.1.16		<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 in the hybrid test. The Permittee shall calculate and maintain a record of the sum of the actual and potential (if the hybrid test was 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. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: 40 CFR 52.21(r)(6) and Minn. R. 7007.3000]</p>

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
	5.1.17		<p>The Permittee must submit a report to the Agency if the annual summed (actual, plus potential if used in hybrid test) 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> <p>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 the hybrid test) 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. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: 40 CFR 52.21(r)(6) and Minn. R. 7007.3000]</p>
	5.1.18		<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. [Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M), Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subps. 1-2, Minn. R. 7009.0010-7009.0080, Minn. Stat. 116.07, subd. 4a, Minn. Stat. 116.07, subd. 9]</p>
	5.1.19		<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. [Minn. R. 7011.0020]</p>
	5.1.20		<p>Air Pollution Control Equipment: Operate all pollution control equipment whenever the corresponding process equipment and emission units are operated. [Minn. R. 7007.0800, subp. 16(J), Minn. R. 7007.0800, subp. 2]</p>
	5.1.21		<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. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 16(J)]</p>

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
	5.1.22		Operation Changes: In any shutdown, breakdown, or deviation the Permittee shall immediately take all practical steps to modify operations to reduce the emission of any regulated air pollutant. The Commissioner may require feasible and practical modifications in the operation to reduce emissions of air pollutants. No emissions units that have an unreasonable shutdown or breakdown frequency of process or control equipment shall be permitted to operate. [Minn. R. 7019.1000, subp. 4]
	5.1.23		Fugitive Emissions: Do not cause or permit the handling, use, transporting, or storage of any material in a manner which may allow avoidable amounts of particulate matter to become airborne. Comply with all other requirements listed in Minn. R. 7011.0150. [Minn. R. 7011.0150]
	5.1.24		Noise: The Permittee shall comply with the noise standards set forth in Minn. R. 7030.0010 to 7030.0080 at all times during the operation of any emission units. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act. [Minn. R. 7030.0010-7030.0080]
	5.1.25		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)]
	5.1.26		The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16. [Minn. R. 7007.0800, subp. 16]
	5.1.27		<p>Monitoring Equipment Calibration - The Permittee shall either:</p> <ol style="list-style-type: none"> 1. Calibrate or replace required monitoring equipment every 12 months; or 2. Calibrate at the frequency stated in the manufacturer's specifications. <p>For each monitor, the Permittee shall maintain a record of all calibrations, including the date conducted, and any corrective action that resulted. The Permittee shall include the calibration frequencies, procedures, and manufacturer's specifications (if applicable) in the Operations and Maintenance Plan. Any requirements applying to continuous emission monitors are listed separately in this permit. [Minn. R. 7007.0800, subp. 4(D)]</p>
	5.1.28		Operation of Monitoring Equipment: Unless noted elsewhere in this permit, 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)]

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
	5.1.29		Recordkeeping: Retain all records at the stationary source, unless otherwise specified within this permit, 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)]
	5.1.30		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)]
	5.1.31		If the Permittee determines that no permit amendment or notification is required prior to making a change, the Permittee must retain records of all calculations required under Minn. R. 7007.1200. For expiring permits, these records shall be kept for a period of five years from the date the change was made or until permit reissuance, whichever is longer. The records shall be kept at the stationary source for the current calendar year of operation and may be kept at the stationary source or office of the stationary source for all other years. The records may be maintained in either electronic or paper format. [Minn. R. 7007.1200, subp. 4]
	5.1.32		<p>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.</p> <p>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]</p>

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
	5.1.33		<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. [Minn. R. 7019.1000, subp. 2]</p>
	5.1.34		<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. [Minn. R. 7019.1000, subp. 1]</p>
	5.1.35		<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]
	5.1.36		<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> <p>Upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150 - 7007.1500]</p>

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
	5.1.37		Extension Requests: The Permittee may apply for an Administrative Amendment to extend a deadline in a permit by no more than 120 days, provided the proposed deadline extension meets the requirements of Minn. R. 7007.1400, subp. 1(H). Performance testing deadlines from the General Provisions of 40 CFR pt. 60 and pt. 63 are examples of deadlines for which the MPCA does not have authority to grant extensions and therefore do not meet the requirements of Minn. R. 7007.1400, subp. 1(H). [Minn. R. 7007.1400, subp. 1(H)]
	5.1.38		Emission Inventory Report: due on or before April 1 of each calendar year following permit issuance, to be submitted on a form approved by the Commissioner. [Minn. R. 7019.3000-7019.3100]
	5.1.39		Emission Fees: due 30 days after receipt of an MPCA bill. [Minn. R. 7002.0005-7002.0095]
	5.1.40		<p>Semiannual Deviations Report: due 30 days after end of each calendar half-year following Permit Issuance. The first report covers January 1 - June 30, which is due by July 30 of each year. The second report covers July 1 - December 31, which is due by January 30 of each year. The report may be submitted quarterly at the option of the Permittee. This report shall list deviations from all permit terms, including exceedances (not only those corresponding to Title I conditions). If no deviations have occurred, the Permittee shall submit the report stating no deviations. The report shall be submitted on a form approved by the Commissioner.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Minn. R. 7007.0800, subp. 6(A), Title I Condition: 40 CFR pt. 50, 4(SO2 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
COMG 1	GP001	Boilers, Units #2 and #3	
	5.2.1		<p>Fuel Usage <= 250000 tons per year of coal per calendar year.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Minn. R. 7009.0020, Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR 52.21(c) and (k), Title I Condition: 40 CFR pt. 52, subp. Y]</p>

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
	5.2.2		<p>Steam Flow <= 150000 pounds per hour 12-month rolling average. The Permittee shall operate and maintain a flow monitor to record the steam flow rate in lbs/hour.</p> <p>This limit is to ensure that actual operating conditions are consistent with assumptions made in the PSD permit application dated 07/31/2003 for permit #10900011-003. [Title I Condition: Avoid major source under 40 CFR 52.21(b)(1)(i) and Minn. R. 7007.3000]</p>
	5.2.3		<p>Daily Recordkeeping: On each day of operation, the Permittee shall document the average hourly steam flow rate for the hours in which EQUI 2 and/or EQUI 4 were operated. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: Avoid major source under 40 CFR 52.21(b)(1)(i) and Minn. R. 7007.3000]</p>
	5.2.4		<p>By the 15th day of each month, the Permittee shall calculate and record the average hourly steam flow for the previous month, and the 12-month rolling average hourly steam flow by averaging the monthly steam flow average for the previous 12 months. [Minn. R. 7007.0800, subps. 4-5]</p>
EQUI 2	EU002	Boiler, Unit #2	
	5.3.1		<p>Fuel type restriction: Natural gas only</p> <p>[This requirement will be incorporated as a SIP Condition at 40 CFR Section 52.1220 on the date that EPA approves this revision into the SIP.] [Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	5.3.2		<p>Fuel type restriction: Natural gas only.</p> <p>[This requirement will be incorporated as a SIP Condition at 40 CFR Section 52.1220 on the date that EPA approves this revision into the SIP.] [Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	5.3.3		<p>Total Particulate Matter <= 0.6 pounds per million Btu heat input. The PM potential to emit based on combustion of natural gas is 0.0072 lb/MMBtu. [Minn. R. 7011.0510, subp. 1]</p>
	5.3.4		<p>Opacity <= 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity. [Minn. R. 7011.0510, subp. 2]</p>

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
	5.3.5		<p>Fuel type restriction: No types of low sulfur coal shall be combusted which have not been demonstrated capable of meeting the STRU2 PM10 limitation. The Permittee is authorized to conduct coal test burning for a new coal type for a maximum of five (5) days total time with a five (5) day advance notice to the Division Manager. Once the coal test burning of the new coal type is completed, for any subsequent use of that coal the Permittee must demonstrate compliance with the PM10 limit.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
EQUI 3	EU004	Boiler, Unit #4	
	5.4.1		<p>Fuel type restriction: No types of low sulfur coal shall be combusted which have not been demonstrated capable of meeting the STRU4 PM10 limitation. The Permittee is authorized to conduct coal test burning for a new coal type for a maximum of five (5) days total time with a five (5) day advance notice to the Division Manager. Once the coal test burning of the new coal type is completed, for any subsequent use of that coal the Permittee must demonstrate compliance with the PM10 limits.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
EQUI 4	EU003	Boiler, Unit #3	
	5.5.1		<p>Fuel type restriction: Natural gas only</p> <p>[This requirement will be incorporated as a SIP Condition at 40 CFR Section 52.1220 on the date that EPA approves this revision into the SIP.] [Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	5.5.2		<p>Fuel type restriction: Natural gas only</p> <p>[This requirement will be incorporated as a SIP Condition at 40 CFR Section 52.1220 on the date that EPA approves this revision into the SIP.] [Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	5.5.3		<p>Total Particulate Matter <= 0.6 pounds per million Btu heat input The PM potential to emit based on combustion of natural gas is 0.0072 lb/MMBtu. [Minn. R. 7011.0510, subp. 1]</p>

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
	5.5.4		Opacity <= 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity. [Minn. R. 7011.0510, subp. 2]
	5.5.5		<p>Fuel type restriction: No types of low sulfur coal shall be combusted which have not been demonstrated capable of meeting the STRU3 PM10 limitation. The Permittee is authorized to conduct coal test burning for a new coal type for a maximum of five (5) days total time with a five (5) day advance notice to the Division Manager. Once the coal test burning of the new coal type is completed, for any subsequent use of that coal the Permittee must demonstrate compliance with the PM10 limits.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
EQUI 18	EU005	Steam Heating Boiler	
	5.6.1		Fuel type: Natural gas only (limit to avoid classification as a significant net emissions increase as defined by 40 CFR Section 52.21). [Title I Condition: Avoid major source under 40 CFR 52.21(b)(1)(i) and Minn. R. 7007.3000]
	5.6.2		Recordkeeping: By the last day of each calendar month, the Permittee shall record the amount of natural gas combusted in the boiler during the previous calendar month. These records shall consist of purchase records, receipts, or fuel meter readings and shall be maintained by the Permittee for a period of two years following the date of such record. [40 CFR 60.48c(g)(2), 40 CFR 60.48c(i), Minn. R. 7011.0570]
STRU 2	SV001	Boiler #2 Stack	
	5.7.1		PM < 10 micron <= 0.4 pounds per million Btu heat input [This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]
	5.7.2		<p>Sulfur Dioxide <= 2.30 pounds per million Btu heat input 3-hour block average basis (calendar day). The Permittee shall calculate and record each 3 hours, the 3-hour SO2 emission values during operation.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR 52.21(c) and (k), Title I Condition: 40 CFR pt. 52, subp. Y]</p>

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
	5.7.3		<p>Sulfur Dioxide <= 2.30 pounds per million Btu heat input 24-hour block average basis (calendar day). The Permittee shall calculate and record each 3 hours, the 3-hour SO2 emission values during operation.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR 52.21(c) and (k), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	5.7.4		<p>The Permittee shall install, maintain, calibrate and operate SO2 Continuous Emission Monitoring Systems, in accordance with 40 CFR pt. 60, Appendix B, as amended and Minn. R. 7017.1010 (Performance Specification 2), located at the common outlet breeching for EQUI1 and EQUI2. The SO2 CEMS shall be used to determine compliance with the SO2 limits. See COMG2 for more requirements.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
STRU 3	SV002	Boiler #3 Stack	
	5.8.1		<p>PM < 10 micron <= 0.4 pounds per million Btu heat input.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	5.8.2		<p>Sulfur Dioxide <= 2.30 pounds per million Btu heat input 3-hour block average basis (calendar day). The Permittee shall calculate and record each 3 hours, the 3-hour SO2 emission values during operation.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR pt. 52, 21(c) and (k), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	5.8.3		<p>Sulfur Dioxide <= 2.30 pounds per million Btu heat input 24-hour block average basis (calendar day). The Permittee shall calculate and record each 3 hours, the 3-hour SO2 emission values during operation.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR 52.21(c) and (k), Title I Condition: 40 CFR pt. 52, subp. Y]</p>

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
	5.8.4		<p>The Permittee shall install, maintain, calibrate and operate SO2 Continuous Emission Monitoring Systems, in accordance with 40 CFR pt. 60 Appendix B and Minn. R. 7017.1000 (Performance Specification 2), located at the common outlet breeching for EQUI4. See COMG2 for requirements. The permittee's calculations shall be used to determine compliance with the 24-hour SO2 limits.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
STRU 4	SV003	Boiler #4 Stack	
	5.9.1		<p>PM < 10 micron <= 0.4 pounds per million Btu heat input.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	5.9.2		<p>Sulfur Dioxide <= 2.10 pounds per million Btu heat input 3-hour block average basis and 24-hour average basis (calendar day). The Permittee shall calculate and record each 3 hours and 24 hours (calendar day basis), the 3-hour and 24-hour SO2 emission values.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Minn. R. 7009.0020, Title I Condition: 40 CFR 50.4(PM10 SIP), Title I Condition: 40 CFR 52.21(k) and (c), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	5.9.3		<p>Sulfur Dioxide <= 0.60 pounds per million Btu heat input 3-hour block average basis (calendar day). The Permittee shall calculate and record, each 3 hours, the 3-hour SO2 emission values during operation.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR 52.21(k) and (c), Title I Condition: 40 CFR pt. 52, subp. Y]</p>

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
	5.9.4		<p>Sulfur Dioxide <= 0.60 pounds per million Btu heat input 24-hour block average basis (calendar day). The Permittee shall calculate and record, each 24 hours, the 24-hour SO2 emission values during operation.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Minn. R. 7009.0020, Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR 52.21(c) and (k), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	5.9.5		<p>SO2 CEMS: The Permittee shall install, maintain, calibrate and operate SO2 Continuous Emission Monitoring Systems, in accordance with 40 CFR pt. 75, and Minn. R. 7017.1010, subp. 1(B) - (Performance Specifications), located at the stack or outlet breeching for EQUI3. The Permittee shall use this SO2 CEM emissions data to determine compliance with the SO2 emission limits. Additional monitoring requirements are located under Subject Items MR018 - 022.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [40 CFR 75.10(a)(1), Minn. R. 7017.1020, Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	5.9.6		<p>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.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Minn. R. 7017.1090, Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	5.9.7		<p>CEMS QA/QC: The owner or operator of an affected facility shall operate, calibrate, and maintain each CEMS according to the QA/QC procedured in 40 CFR pt. 75, Appendix B as amended, except as allowed elsewhere in this permit.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [40 CFR 75.21, Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
	5.9.8		<p>Performance Test: due before end of each 60 months starting 08/15/2004 to measure emissions of PM10 from STRU4. The first test required by this condition is to be completed by 8/15/2009.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [40 CFR 64.6(b), Minn. R. 7017.2020, subp. 1, Title I Condition: 40 CFR 50.6(PM10), Title I Condition: 40 CFR pt. 52, subp. Y]</p>

6. Submittal/action requirements

This section lists most of the submittals required by this permit. Please note that some submittal requirements may appear in the Limits and Other Requirements section, or, if applicable, within a Compliance Schedule section.

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
TFAC 1	10900011	Rochester Public Utilities - Silver Lake	
	6.1.1		The Permittee shall submit a semiannual deviations report : Due semiannually, by the 30th of January and July 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. [Minn. R. 7007.0800, subp. 6(A)(2)]
	6.1.2		The Permittee shall submit an application for permit reissuance : Due 180 calendar days before Permit Expiration Date. [Minn. R. 7007.0400, subp. 2]
	6.1.3		The Permittee shall submit a compliance certification : Due annually, by the 31st of January (for the previous calendar year). The Permittee shall submit this to the Commissioner on a form approved by the Commissioner. This report covers all deviations experienced during the calendar year. [Minn. R. 7007.0800, subp. 6(C)]

7. Appendices

Appendix A. SO₂ Modeling Parameters

Title I Condition: 40 CFR Section 50.4, SO₂ SIP; Title I Condition: 40 CFR pt. 52, subp. Y

[Appendix A will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.]

Rochester Public Utilities Boiler Stack Parameters for Modeling

Load (%)	STRU2 (Boiler #2 Stack)				STRU3 (Boiler #3 Stack)			
	Heat Input (mmBtu/hr)	Emissions (g/s)	T (K)	V (m/s)	Heat Input (mmBtu/hr)	Emissions (g/s)	T (K)	V (m/s)
100	268.2	64.21	444.5	16.25	284.5	68.11	421.4	15.80
80	214.6	51.36	438.0	12.80	227.6	54.49	420.0	12.95
60	160.9	38.52	431.5	9.35	170.7	40.86	418.6	10.00
40	107.3	25.68	425.0	5.85	113.8	27.24	412.9	7.00

	Height of Opening from Ground (m)	Diameter (m)
STRU2 (Boiler #2 Stack)	60.96	1.93
STRU3 (Boiler #3 Stack)	60.96	2.03

Appendix B. Insignificant Activities and General Applicable Requirements

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

Minn. R.	Rule description of the activity	General applicable requirement
Minn. R. 7007.1300, subp. 3(G)	Emissions from a laboratory, as defined in Minn. R. 7007.1300, subp. 3(G)	PM, variable depending on airflow Opacity <= 20% (Minn. R. 7011. 0715)
Minn. R. 7007.1300, subp. 3(H)(2)	Equipment used for hydraulic or hydrostatic testing	PM, variable depending on airflow Opacity <= 20% (Minn. R. 7011. 0715)
Minn. R. 7007.1300, subp. 3(H)(3)	Brazing, soldering or welding equipment	PM, variable depending on airflow Opacity <= 20% (Minn. R. 7011. 0715)
Minn. R. 7007.1300, subp. 3(J)	Fugitive dust emissions from unpaved roads and parking lots	Requirement to take reasonable measures to prevent PM from becoming airborne (Minn. R. 7011.0150)

Appendix C. SIP Requirements for Permanently Retired Subject Items

[Appendix C will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.]

This appendix contains Title I SO₂ and PM₁₀ SIP conditions for subject items that have been permanently retired. By placing these requirements to the permit appendix, the subject items EQUI1, EQUI3, STRU4, COMG2, and COMG3 can be officially retired in the permitting database, and compliance with Title V permitting requirements is maintained. These Title I SIP conditions continue to be enforceable until the SIP revision is approved.

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
COMG2	GP004	CEMS and COMS	
	7.1.1		<p>Continuous Operation: CEMS must be operated and data recorded during all periods of emission unit operation when combusting solid and/or liquid fuel 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. Acceptable monitor downtime includes reasonable periods as listed in Items A, B, C and D of Minn. R. 7017.1090, subp. 2.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.4(SO₂ SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	7.1.2		<p>QA Plan: Develop and implement a written quality assurance plan that covers each CEMS. The plan shall be on site and available for inspection within 30 days after monitor certification. The plan shall contain all of the information required by 40 CFR pt. 60, App. F, section 3.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.4(SO₂ SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	7.1.3		<p>CEMS QA/QC: The owner or operator of an affected facility shall operate, calibrate, and maintain each CEMS according to the QA/QC procedures in 40 CFR pt. 60, Appendix F as amended except as allowed elsewhere in this permit.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.4(SO₂ SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
	7.1.4		<p>CEMS/COMS Re-installation: Re-install CEMS/COMS when and if necessary, according to the procedures in Minn. Rules and procedures approved by this agency.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
COMG3	GP005	Boilers	
	7.2.1		<p>Sulfur Dioxide \leq 1.90 pounds per million Btu heat input 24-hour block average basis (calendar day) when any two or more boilers in GP 005 burn coal in any amount during a calendar day. When any two or more boilers in GP 005 burn coal in any amount during a calendar day, each boiler in GP 005 is subject to the emission limit listed in this condition for that 24-hour period (calendar day). The Permittee shall calculate and record, each 24 hours, the 24-hour SO₂ emission value. The SO₂ CEM on SV 001 shall be used to measure SO₂ emissions from EUs 001 and 002. The SO₂ CEM on SV 002 shall be used to measure SO₂ emissions from EU 003.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR 52.21(k) and (c), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
STRU4	SV003	Boiler #4 Stack	
	7.3.1		<p>PM < 10 micron \leq 0.4 pounds per million Btu heat input.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	7.3.2		<p>Sulfur Dioxide \leq 2.10 pounds per million Btu heat input 3-hour block average basis and 24-hour average basis (calendar day). The Permittee shall calculate and record each 3 hours and 24 hours (calendar day basis), the 3-hour and 24-hour SO₂ emission values.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Minn. R. 7009.0020, Title I Condition: 40 CFR 50.4(PM10 SIP), Title I Condition: 40 CFR 52.21(k) and (c), Title I Condition: 40 CFR pt. 52, subp. Y]</p>

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
	7.3.3		<p>Sulfur Dioxide <= 0.60 pounds per million Btu heat input 3-hour block average basis (calendar day). The Permittee shall calculate and record, each 3 hours, the 3-hour SO₂ emission values during operation.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.4(SO₂ SIP), Title I Condition: 40 CFR 52.21(k) and (c), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	7.3.4		<p>Sulfur Dioxide <= 0.60 pounds per million Btu heat input 24-hour block average basis (calendar day). The Permittee shall calculate and record, each 24 hours, the 24-hour SO₂ emission values during operation.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Minn. R. 7009.0020, Title I Condition: 40 CFR 50.4(SO₂ SIP), Title I Condition: 40 CFR 52.21(c) and (k), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	7.3.5		<p>SO₂ CEMS: The Permittee shall install, maintain, calibrate and operate SO₂ Continuous Emission Monitoring Systems, in accordance with 40 CFR pt. 75, and Minn. R. 7017.1010, subp. 1(B) - (Performance Specifications), located at the stack or outlet breeching for EU004. The Permittee shall use this SO₂ CEM emissions data to determine compliance with the SO₂ emission limits. Additional monitoring requirements are located under Subject Items MR018 - 022.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [40 CFR 75.10(a)(1), Minn. R. 7017.1020, Title I Condition: 40 CFR 50.4(SO₂ SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	7.3.6		<p>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.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Minn. R. 7017.1090, Title I Condition: 40 CFR 50.4(SO₂ SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
	7.3.7		<p>CEMS QA/QC: The owner or operator of an affected facility shall operate, calibrate, and maintain each CEMS according to the QA/QC procedured in 40 CFR pt. 75, Appendix B as amended, except as allowed elsewhere in this permit.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [40 CFR 75.21, Title I Condition: 40 CFR 50.4(SO2 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	7.3.8		<p>Performance Test: due before end of each 60 months starting 08/15/2004 to measure emissions of PM10 from SV003. The first test required by this condition is to be completed by 8/15/2009.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [40 CFR 64.6(b), Minn. R. 7017.2020, subp. 1, Title I Condition: 40 CFR 50.6(PM10), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
EQUI1	EU001	Boiler, Unit #1	
	7.4.1		<p>Fuel type restriction: No types of low sulfur coal shall be combusted which have not been demonstrated capable of meeting the SV001 PM10 limitation. The Permittee is authorized to conduct coal test burning for a new coal type for a maximum of five (5) days total time with a five (5) day advance notice to the Division Manager. Once the coal test burning of the new coal type is completed, for any subsequent use of that coal the Permittee must demonstrate compliance with the PM10 limit.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
EQUI3	EU004	Boiler, Unit #4	
	7.5.1		<p>Fuel type restriction: No types of low sulfur coal shall be combusted which have not been demonstrated capable of meeting the SV003 PM10 limitation. The Permittee is authorized to conduct coal test burning for a new coal type for a maximum of five (5) days total time with a five (5) day advance notice to the Division Manager. Once the coal test burning of the new coal type is completed, for any subsequent use of that coal the Permittee must demonstrate compliance with the PM10 limits.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
NA	FS001	Coal Unloading, handling, and storage	
	7.6.1		<p>The Permittee shall store no more than 100,000 tons of coal at the Silver Lake Plant.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR Section 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	7.6.2		<p>The Permittee shall store coal and/or coal/petroleum coke blend and not more than 45 percent shall be less than 1/4 inch size upon delivery to the Silver Lake Plant per ASTM D4749.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR Section 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	7.6.3		<p>The Permittee shall clean up all coal spilled on roads or access areas within 24 hours of the spill.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR Section 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	7.6.4		<p>The Permittee shall post a sign and shall ensure that all vehicular traffic shall comply with a speed limit not to exceed five (5) miles per hour in the coal handling area, unless responding to an emergency.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR Section 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	7.6.5		<p>To prevent trackout of coal onto paved roads the Permittee shall direct vehicles to drive only on the unpaved roads designated as roadways within the coal yard.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR Section 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>
	7.6.6		<p>When adding to an existing stockpile, the Permittee shall not exceed a 23 foot freefall height.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR Section 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>

Subject Item	Sec.SI.Reqt	SI des:SI desc	Requirement & Citation
	7.6.7		<p>Ash waste loaded into open-top haul trucks shall be wetted prior to loading. After loading, either the surface of the ash shall be thoroughly wetted or the haul truck shall be covered.</p> <p>[This requirement will be terminated on the date that EPA approves this revision into the SIP at 40 CFR Section 52.1220.] [Title I Condition: 40 CFR Section 50.6(PM10 SIP), Title I Condition: 40 CFR pt. 52, subp. Y]</p>