

**Draft  
Air Individual Permit  
Major Amendment  
07500005-102**

**Permittee:** Wisconsin Central Ltd Two Harbors Docks  
**Facility name:** Wisconsin Central Ltd Two Harbors Docks  
1 Waterfront Drive  
Two Harbors, MN 55616  
Lake County

**Operating permit issuance date:** January 27, 2014

**Expiration date:** Non-expiring Permit

**Major Amendment:** [Action Issue Date]

**Permit characteristics:** State; Nonmajor for Part 70/ True minor for NSR; True Minor for NSR

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

This permit amendment supersedes Air Emission Permit No. 07500005-002 and authorizes the Permittee to operate and modify 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. 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 are enforceable by U.S. Environmental Protection Agency (EPA) Administrator or citizens under the Clean Air Act.

Signature: ( )

*This document has been electronically signed.*

for Steven S. Pak, P.E., Manager  
Air Quality Permits Section  
Industrial Division

for the Minnesota Pollution Control Agency

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Permit issued: [month day, year]  
Permit expires: [month day, year]

1. Permit applications table

Permit applications:

<b>Title description</b>	<b>Application receipt date</b>	<b>Action number</b>
State Permit	03/29/1996	07500005-001
Major Amendment	03/27/2008	07500005-002
Major Amendment	02/29/2009, with supplemental information received 07/27/2009	07500005-002
Administrative Amendment	08/24/2011	07500005-002
Administrative Amendment	01/09/2012	07500005-002
Major Amendment	02/27/2017	07500005-102
Major Amendment	07/22/2019, with updated information received 01/27/2020	07500005-102

Permit issued: [month day, year]  
Permit expires: [month day, year]

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## 2. Where to send submittals

Send submittals that are required to be submitted to the 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 – 6<sup>th</sup> 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

**Or**

Email a signed and scanned PDF copy to:  
[submitstacktest.pca@state.mn.us](mailto:submitstacktest.pca@state.mn.us)  
(for submittals related to stack testing)  
[AQRoutineReport.PCA@state.mn.us](mailto:AQRoutineReport.PCA@state.mn.us)  
(for other compliance submittals)  
(See complete email instructions in “Routine Air Report Instructions Letter” at  
<http://www.pca.state.mn.us/nwqh472.>)

### 3. Facility description

The Wisconsin Central Ltd Two Harbors Docks (Facility) is located at 1 Waterfront Drive in Two Harbors, Lake County, Minnesota.

Wisconsin Central Ltd is a railroad terminal that receives, handles, stockpiles, and ships taconite pellets, as well as a small amount of blast furnace trim. At the facility there is one rail receiving building, two taconite piles (one for Minorca-sourced taconite and one for Minntac taconite), and two docks. Taconite pellets may be unloaded from railcars onto an underground conveyor within the receiving building, or they may be unloaded from railcars directly into the dock pockets. From the receiving building, the pellets can either be conveyed to the stockpiles, where they are added to the stockpiles using a luffing stacker, or transferred from a series of conveyors to Dock 2 for shipping. Dock 2 is used only for taconite shipping. From Dock 2, the pellets can be loaded onto vessels via gravity load chutes on one side of the dock or using shiploaders (conveyor arms that transfer the pellets to the ship) on the other side of the dock. Taconite is reclaimed from the stockpiles using a bucketwheel to transfer the pellets back to the conveyor system, or it can be reclaimed from the surge stockpile, which is a series of pits that can be opened onto an underground conveyor in one section of the stockpile yard. On rare occasions taconite may also be reclaimed from the pile using front end loaders. Blast furnace trim is never stored onsite, it is always unloaded from railcars into Dock 1 and from there it is loaded to vessel by gravity chutes. The facility has one #2 fuel oil storage tank and one #6 fuel oil storage tank.

The main pollutants of concern are particulate matter (PM), particulate matter less than ten microns (PM10), and particulate matter less than 2.5 microns (PM2.5), which are generated from material drop points such as rail unloading, transfers onto conveyors and from one conveyor to another, stockpile reclaim activities, and vessel loading, as well as from pile erosion and vehicle traffic on unpaved roads. Baghouses and water spray are used to control particulate matter at the majority of emission points.

Wisconsin Central Ltd has several insignificant activities, including natural gas fired heating equipment, small tanks, and a welding station.

This amendment is a major amendment to add a screener to clean scrap pellets so they can be sold, and to incorporate assumptions used in PM10 modeling.

4. Summary of subject items

SI ID: Description	Relationship type	Related SI ID: Description
TFAC 1: Wisconsin Central Ltd Two Harbors Facility		
ACTV 1: All IAs		
COMG 8: Bucketwheel Limit	has members	FUGI 13, FUGI 19, FUGI 20
EQUI 3: Belt 7 to Belt 5	sends to	STRU 4: Belt 4 to Belt 5
EQUI 3: Belt 7 to Belt 5	is controlled by	TREA 12: Water Spray Belt 5
EQUI 3: Belt 7 to Belt 5	is controlled by	TREA 22: Baghouse 4 - Belt 4 or Belt 7 to Belt 5
EQUI 4: Belt 9 to Belt 4	sends to	STRU 3: Belt 3 to Belt 4
EQUI 4: Belt 9 to Belt 4	is controlled by	TREA 21: Baghouse 3 - Belt 3 or Belt 9 to Belt 4
EQUI 7: Belt 3 to Belt 4	sends to	STRU 3: Belt 3 to Belt 4
EQUI 7: Belt 3 to Belt 4	is controlled by	TREA 10: Water Spray Belt 3 to Belt 4
EQUI 7: Belt 3 to Belt 4	is controlled by	TREA 21: Baghouse 3 - Belt 3 or Belt 9 to Belt 4
EQUI 8: Belt 4 to Belt 5	sends to	STRU 4: Belt 4 to Belt 5
EQUI 8: Belt 4 to Belt 5	is controlled by	TREA 11: Water Spray Belt 4 to Belt 5
EQUI 8: Belt 4 to Belt 5	is controlled by	TREA 22: Baghouse 4 - Belt 4 or Belt 7 to Belt 5
EQUI 9: Railcar Unload to 1A & 1B-Cardump bldg	sends to	STRU 1: Railcar Unload to 1A & 1B-Cardump bldg
EQUI 9: Railcar Unload to 1A & 1B-Cardump bldg	is controlled by	TREA 18: Baghouse 1 - Car Dumper
EQUI 10: Belt 2 to Belt 3	sends to	STRU 2: Belt 2 to Belt 3

SI ID: Description	Relationship type	Related SI ID: Description
EQUI 10: Belt 2 to Belt 3	is controlled by	TREA 19: Baghouse 2 - Belt 2 to Belt 3
EQUI 10: Belt 2 to Belt 3	is controlled by	TREA 20: Belt 2 Spray Bar
EQUI 24: Distillate Oil		
EQUI 25: #2 Fuel Oil		
FUGI 1: Unpaved Roads		
FUGI 2: Return Belt RB 6 to RB 7		
FUGI 3: Luffing to Stockpile	is controlled by	TREA 20: Belt 2 Spray Bar
FUGI 3: Luffing to Stockpile	is controlled by	TREA 27: Belt 3 Spray Bar
FUGI 4: Bucketwheel to Cast Out		
FUGI 5: Railcar Unload to Dock 1 Iron Ore		
FUGI 6: Railcar Unload to Dock 2		
FUGI 7: Bucketwheel from Stockpile		
FUGI 9: Stacker to Conveyor 3		
FUGI 10: Dock 2 Pockets to Belt 7		
FUGI 11: Dock 2 to Conveyor RB 6		
FUGI 12: Belt 3 to Luffing Stacker	is controlled by	TREA 20: Belt 2 Spray Bar
FUGI 12: Belt 3 to Luffing Stacker	is controlled by	TREA 27: Belt 3 Spray Bar
FUGI 13: Bucketwheel to Gull Wing		
FUGI 15: Bucketwheel Intermediate Transfer		
FUGI 16: Taconite Stockpile		
FUGI 17: Gravity Load to Vessel Dock 1 (Nat)		
FUGI 18: Belt 5 to Dock 2 pockets	is controlled by	TREA 12: Water Spray Belt 5
FUGI 19: Bucketwheel to Luffing		
FUGI 20: Bucketwheel to Gull Wing 2		

SI ID: Description	Relationship type	Related SI ID: Description
FUGI 22: Front End Loader to Railcar		
FUGI 26: Vessel Load Gravity Dock 2		
FUGI 27: Railcar Unload to Dock 2		
FUGI 28: Shiploader to Vessel	is controlled by	TREA 12: Water Spray Belt 5
FUGI 30: Pellet Screening	is controlled by	TREA 24: Feed Conveyor Atomizer
FUGI 30: Pellet Screening	is controlled by	TREA 25: Screening Atomizer
FUGI 30: Pellet Screening	is controlled by	TREA 26: Screening Atomizer
FUGI 31: Drop to Fines Pile	is controlled by	TREA 24: Feed Conveyor Atomizer
FUGI 31: Drop to Fines Pile	is controlled by	TREA 25: Screening Atomizer
FUGI 31: Drop to Fines Pile	is controlled by	TREA 26: Screening Atomizer
FUGI 32: Drop to Screening Process Inlet	is controlled by	TREA 24: Feed Conveyor Atomizer
FUGI 33: Drop to Screen from Feed Conveyor	is controlled by	TREA 24: Feed Conveyor Atomizer
FUGI 33: Drop to Screen from Feed Conveyor	is controlled by	TREA 25: Screening Atomizer
FUGI 33: Drop to Screen from Feed Conveyor	is controlled by	TREA 26: Screening Atomizer
FUGI 34: Drop to Sized Product Pile	is controlled by	TREA 24: Feed Conveyor Atomizer
FUGI 34: Drop to Sized Product Pile	is controlled by	TREA 25: Screening Atomizer
FUGI 34: Drop to Sized Product Pile	is controlled by	TREA 26: Screening Atomizer
STRU 1: Railcar Unload to 1A & 1B-Cardump		

SI ID: Description	Relationship type	Related SI ID: Description
bldg		
STRU 2: Belt 2 to Belt 3		
STRU 3: Belt 3 to Belt 4		
STRU 4: Belt 4 to Belt 5		
STRU 6: Belt 7 to Belt 5		
TREA 10: Water Spray Belt 3 to Belt 4		
TREA 11: Water Spray Belt 4 to Belt 5		
TREA 12: Water Spray Belt 5		
TREA 18: Baghouse 1 - Car Dumper		
TREA 19: Baghouse 2 - Belt 2 to Belt 3	is controlled in series by	TREA 20: Belt 2 Spray Bar
TREA 20: Belt 2 Spray Bar	is controlled in series by	TREA 27: Belt 3 Spray Bar
TREA 21: Baghouse 3 - Belt 3 or Belt 9 to Belt 4	is controlled in series by	TREA 10: Water Spray Belt 3 to Belt 4
TREA 22: Baghouse 4 - Belt 4 or Belt 7 to Belt 5	is controlled in series by	TREA 11: Water Spray Belt 4 to Belt 5
TREA 22: Baghouse 4 - Belt 4 or Belt 7 to Belt 5	is controlled in series by	TREA 12: Water Spray Belt 5
TREA 24: Feed Conveyor Atomizer		
TREA 25: Screening Atomizer		
TREA 26: Screening Atomizer		
TREA 27: Belt 3 Spray Bar		

5. Limits and other requirements

Requirement number	Requirement and citation
<b>TFAC 1</b>	<b>Wisconsin Central Ltd Two Harbors Facility</b>
5.1.1	The Permittee shall apply water or appropriate dust suppression chemicals by water truck to the access areas, roads, parking areas, reclaiming activities, and rail loading to the extent necessary to prevent particulate matter from becoming airborne. [Minn. R. 7007.0800, subp. 2, Minn. Stat. 116.07, subd. 4a(a)]
5.1.2	The Permittee shall not apply any surface hardening agents, wetting or chemical agents or oils that may cause ground water or surface water contamination in violation of any applicable water pollution laws. [Minn. R. 7007.0800, subp. 2, Minn. Stat. 116.07, subd. 4a(a)]
5.1.3	The Permittee shall have a water truck available and shall document periods in which the water truck was not available. [Minn. R. 7007.0800, subp. 2, Minn. Stat. 116.07, subd. 4a(a)]
5.1.4	The Permittee shall ensure that all vehicular traffic does not exceed 10.0 miles per hour on any unpaved surface at the facility. [Minn. R. 7007.0800, subp. 2, Minn. Stat. 116.07, subd. 4a(a)]
5.1.5	Visible Emission Evaluation Certification: The Permittee shall retain one or more employees which receive training in EPA Method 9 and maintain a valid visible emissions certification. [Minn. R. 7007.0800, subp. 2, Minn. Stat. 116.07, subd. 4a(a)]
5.1.6	The Permittee shall maintain detailed records of facility operations to identify conditions and activities which result in frequent occurrences of visible emissions.  For those conditions and activities which result in frequent occurrences of visible emissions, the Permittee shall institute additional measures to reduce visible emissions during those conditions and activities. [Minn. R. 7007.0800, subps. 4-5, Minn. R. 7007.0800, subp. 14]
5.1.7	The Permittee shall conduct real time monitoring of wind speed using on-site weather data collection equipment. The Permittee shall equip the weather data collection equipment with alarms to indicate steady wind speeds of 30 mph and above and wind gusts of 45 mph and above. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]
5.1.8	Wind Speed Alarm Recordkeeping: When a wind speed alarm is activated, the permittee shall record the date and time of the alarm, the reason for the alarm, and the corrective actions taken. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]
5.1.9	Permit Appendices: This permit contains appendices as listed in the permit Table of Contents. The Permittee shall comply with all requirements contained in Appendices A (Insignificant activities and general applicable requirements) and B (Fugitive Dust Control Plan).  Modeling parameters in Appendix C (Parameters used in modeling for permit #07500005-102) are included for reference only as described elsewhere in this permit. [Minn. R. 7007.0800, subp. 2(A) & (B)]
5.1.10	The Permittee must comply with Minn. Stat. 116.385. The Permittee may not use trichloroethylene at its permitted facility after June 1, 2022, including in any manufacturing, processing, or cleaning processes, except as described in Minn. Stat. 116.385, subd. 2(b) and 4. [Minn. Stat. 116.385]
5.1.11	Contractors: Prior to any contractor activities being conducted on site, the Permittee shall determine whether the contractor activities are part of the stationary source as defined by Minn. R. 7005.0100, subpart 42c.  If the contractor activities are part of the stationary source, the Permittee shall evaluate the activities to determine whether a permit amendment or a Part 70 permit is needed. If a permit amendment or

Requirement number	Requirement and citation
	<p>a Part 70 permit is needed, the Permittee shall apply for and obtain the appropriate permit amendment or permit prior to making the change. If the Permittee determines a permit amendment or a Part 70 permit is not needed, the Permittee shall retain records of the calculations and other information used to determine a permit amendment or a Part 70 permit is not needed.</p> <p>If the contractor activities are not part of the stationary source, the Permittee shall retain the following records on site for each contractor:</p> <ol style="list-style-type: none"> <li>1. The contractor company name;</li> <li>2. The information used to determine the contractor activities are not part of the stationary source;</li> <li>3. The date the contractor starts operating on site;</li> <li>4. The date the contractor stops operating on site;</li> <li>5. The contractor's MPCA air emissions permit number, if a permit is needed for the activities;</li> <li>6. A brief description of the activities undertaken by the contractor, including types and amounts of materials handled and hours of operation;</li> <li>7. A list of the equipment operated on site by the contractor; and</li> <li>8. Estimated emissions for the contractor activities. [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, To avoid major source under 40 CFR 70.2 &amp; Minn. R. 7007.0200]</li> </ol>
5.1.12	<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>
5.1.13	<p>Comply with Fugitive Emission Control Plan: The Permittee shall follow the actions and recordkeeping specified in the fugitive dust control plan in Appendix B of this permit. If the Commissioner determines the Permittee is out of compliance with Minn. R. 7011.0150 or the fugitive control plan, then the Permittee may be required to amend the control plan and/or to install and operate particulate matter ambient monitors as requested by the Commissioner. [Minn. R. 7007.0800, subp. 2(A), Minn. R. 7009.0020, Minn. R. 7011.0150, Minn. Stat. 116.07, subd. 4a(a)]</p>
5.1.14	<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>
5.1.15	<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(A) &amp; (B)]</p>
5.1.16	<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 &amp; 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>
5.1.17	<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</p>

Requirement number	Requirement and citation
	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]
5.1.18	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]
5.1.19	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]
5.1.20	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)]
5.1.21	The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16. [Minn. R. 7007.0800, subp. 16]
5.1.22	<p>Monitoring Equipment Calibration - The Permittee shall either:</p> <ol style="list-style-type: none"> <li>1. Calibrate or replace required monitoring equipment every 12 months; or</li> <li>2. Calibrate at the frequency stated in the manufacturer's specifications.</li> </ol> <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>
5.1.23	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)]
5.1.24	Recordkeeping: Retain all records at the stationary source, unless otherwise specified within this permit, for 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)]
5.1.25	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)]
5.1.26	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 non-expiring permits, these records shall be kept for a period of five years from the date that the change was made. 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]
5.1.27	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

Requirement number	Requirement and citation
	<p>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>
5.1.28	<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>
5.1.29	<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>
5.1.30	<p>Notification of Deviations Endangering Human Health or the Environment Report: Within two 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"> <li>1. the cause of the deviation;</li> <li>2. the exact dates of the period of the deviation, if the deviation has been corrected;</li> <li>3. whether or not the deviation has been corrected;</li> <li>4. the anticipated time by which the deviation is expected to be corrected, if not yet corrected; and</li> <li>5. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation. [Minn. R. 7019.1000, subp. 1]</li> </ol>
5.1.31	<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 three or more 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>
5.1.32	<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). 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)]</p>
5.1.33	<p>Emission Inventory Report: due on or before April 1 of each calendar year following permit issuance. Submit in a format specified by the Commissioner. [Minn. R. 7019.3000-7019.3100]</p>
5.1.34	<p>Emission Fees: due 30 days after receipt of an MPCA bill. [Minn. R. 7002.0005-7002.0085]</p>
5.1.35	<p>The Permittee shall not have engines that meet subparagraph (1)(iii) under the definition of Nonroad Engine at 40 CFR Section 1068.30 in one location within the stationary source for more than 12 consecutive months. A location is any single site at a building, structure, facility, or installation.</p>

Requirement number	Requirement and citation
	Any engine, or engines, that replaces an engine at a location and that is intended to perform the same or similar function as the engine it replaced will be included in calculating the consecutive time period. [40 CFR 1068.30]
5.1.36	For a nonroad engine that is excluded from any requirements of 40 CFR Part 1068 because it is a stationary engine, the Permittee may not move it or install it in any mobile equipment, except as allowed by the provisions of 40 CFR Part 1068. The Permittee may not circumvent or attempt to circumvent the residence-time requirements of subparagraph (2)(iii) of the Nonroad Engine definition at 40 CFR Section 1068.30. [40 CFR 1068.101(b)(3)]
5.1.37	<p>The Permittee shall conduct an inventory of all engines on-site that meet subparagraph (1)(iii) under the definition of Nonroad Engine at 40 CFR Section 1068.30, once each calendar quarter; inventories shall not take place in consecutive months. This applies to nonroad engines that are owned by the Permittee, or rented and operated by the Permittee, or brought onsite and operated by a vendor or contractor. The inventory shall include the following:</p> <ol style="list-style-type: none"> <li>1) Date that the nonroad engine is inventoried.</li> <li>2) Identification number.</li> <li>3) Function of the nonroad engine (e.g. compressor, welder).</li> <li>4) Location of the engine within the stationary source.</li> <li>5) Statement that the nonroad engine has not been located in a single location for 12 consecutive months, and movement between locations has not been for purposes of circumvention of residence time requirements of subparagraph (2)(iii) under the definition of Nonroad Engine at 40 CFR Section 1068.30. [40 CFR 1068.30(nonrd engn)(1)(iii), Minn. R. 7007.0800, subps. 4-5]</li> </ol>
5.1.38	<p>A nonroad engine ceases to be a nonroad engine and becomes a new stationary engine if:</p> <ol style="list-style-type: none"> <li>1. At any time, it meets the criteria specified in subparagraph (2)(iii) under the definition of Nonroad Engine in 40 CFR Section 1068.30. For example, a portable generator engine ceases to be a nonroad engine if it is used or will be used in a single specific location for 12 months or longer. If the Administrator or the Permitting authority determines that an engine will be or has been used in a single specific location for 12 months or longer, it ceased to be a nonroad engine when it was placed in that location.</li> </ol> <p>OR</p> <ol style="list-style-type: none"> <li>2. It is otherwise regulated by a federal New Source Performance Standard promulgated under section 111 of the Clean Air Act (42 U.S.C. 7411). [40 CFR 1068.31(e)]</li> </ol>
5.1.39	Modeled Parameters for PM10: The parameters used in PM10 modeling for permit number 07500005-102 are listed in Appendix C of this permit. The parameters describe the operation of the facility at maximum permitted capacity. The purpose of listing the parameters in the appendix is to provide a benchmark for future changes. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.1.40	Equivalent or Better Dispersion (EBD) Modeling Triggers (Modeling Not Required) for PM10: Changes that do not require a permit amendment or require an administrative permit amendment do not trigger the EBD Modeling Submittal requirement. The Permittee shall keep updated records on site of all modeled PM10 parameters and emission rates listed in Appendix C. The Permittee shall submit any changes to modeled PM10 parameters and emission rates with the next required modeling submittal. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.1.41	EBD Modeling Triggers (Modeling Required) for PM10: Changes that require, or would require, a minor, moderate, or major permit amendment due to an increase in PM10 emissions and affect any modeled PM10 parameter or emission rate listed in Appendix C, or an addition to the information documented in Appendix C, trigger the EBD Remodeling Submittal requirement. The Permittee shall include previously made changes to modeled PM10 parameters and emission rates listed in Appendix

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	C that did not previously trigger the EBD Modeling Submittal requirement with this modeling submittal. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.1.42	EBD Modeling Submittal for PM10: For changes meeting the criteria in the EBD Modeling Triggers (Modeling Required) requirement, the Permittee shall submit an EBD modeling submittal in accordance with the current version of the MPCA Air Dispersion Modeling Guidance and shall wait for written approval (for major amendments, in the form of an issued permit amendment; for moderate amendments, in the form of a construction authorization letter) before making such changes. For minor amendments, written approval of the EBD modeling may be given before permit issuance; however, this approval applies only to the EBD modeling and not to any other changes. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.1.43	EBD Modeling Submittal Content for PM10: The information submitted must include, for stack and vent sources, source emission rate, location, height, diameters, exit velocity, exit temperature, discharge direction, use of rain caps or rain hats, and, if applicable, locations and dimensions of nearby buildings. For non-stack/vent sources, this includes the source emission rate, location, size and shape, release height, and, if applicable, any emission rate scalars, and the initial lateral dimensions and initial vertical dimensions and adjacent building heights. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.1.44	<p>Outdated EBD Baseline Modeling for PM10: Prior to conducting the EBD analysis, the Permittee shall use the current version of the MPCA Air Dispersion Modeling Guidance to determine if the Baseline Modeling (the most recent refined modeling demonstration) is outdated. If the Baseline Modeling is outdated, the Permittee shall update the Baseline Modeling to be consistent with the current version of the MPCA Air Dispersion Modeling Guidance. The updated modeling will become the new Baseline Modeling.</p> <p>This requirement does not require the Permittee to complete a new refined modeling demonstration using the revisions made for the EBD demonstration. [Minn. R. 7007.0800, subp. 2(A) &amp; (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]</p>
5.1.45	EBD Modeling Results for PM10: The dispersion characteristics due to the revisions of the information in Appendix C must be equivalent to or better than the dispersion characteristics modeled for permit #07500005-102. The Permittee shall demonstrate this equivalency in the proposal. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.1.46	Computer Dispersion Modeling Triggers for PM10: The Permittee shall conduct a refined remodeling analysis in accordance with the Computer Dispersion Modeling requirements of this permit and the current version of the MPCA Air Dispersion Modeling Guidance if: (1) the results of the EBD modeling analysis do not demonstrate equivalent or better dispersion characteristics; (2) a conclusion cannot readily be made about the dispersion, or (3) the criteria in the EBD Modeling Triggers requirement are met and the Permittee has previously conducted three successive EBD analyses using the same Baseline Modeling. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.1.47	Computer Dispersion Modeling Protocol: due 180 days after receipt of written MPCA request for PM10 refined modeling. The Permittee shall submit a Computer Dispersion Modeling Protocol that is complete and approvable by MPCA by the deadline in this requirement. This protocol will describe the proposed modeling methodology and input data, in accordance with the current version of the MPCA Air Dispersion Modeling Guidance. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.1.48	Computer Dispersion Modeling Protocol: due 60 days after receipt of written MPCA request for revisions to the submitted protocol for PM10 modeling. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]

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5.1.49	Computer Dispersion Modeling Results: due 180 days after receipt of written MPCA approval of Computer Dispersion Modeling Protocol for PM10. The Permittee shall submit a final Computer Dispersion Modeling Report that is complete and approvable by MPCA by the deadline in this requirement. The submittal shall adhere to the current version of the MPCA Air Dispersion Modeling Guidance and the approved Computer Dispersion Modeling Protocol. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
<b>COMG 8</b>	<b>Bucketwheel Limit</b>
5.2.1	Taconite <= 90000 tons per day 24-hour block basis. This limit applies to the combined throughput of FUGI 13 (Bucketwheel to Gull Wing), FUGI 19 (Bucketwheel to Luffing), and FUGI 20 (Bucketwheel to Gull Wing 2). [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.2.2	Taconite: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the total tons of taconite processed by FUGI 13 (Bucketwheel to Gull Wing), FUGI 19 (Bucketwheel to Luffing), and FUGI 20 (Bucketwheel to Gull Wing 2). This shall be based on written logs. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
<b>EQUI 3</b>	<b>Belt 7 to Belt 5</b>
5.3.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.3.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.3.3	Taconite <= 50000 tons per day 24-hour block basis. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.3.4	Taconite: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the tons of taconite processed. This shall be based on written logs. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.3.5	The Permittee shall vent emission from EQUI 3 to control equipment meeting the requirements of fabric filter TREA 22 (Baghouse 4 - Belt 4 or Belt 7 to Belt 5) when needed to eliminate visible emissions or to account for baghouse control for emission inventory purposes, unless the fabric filter is out of commission for maintenance, repair or inspection. [Minn. R. 7007.0800, subp. 2(A) & (B)]
5.3.6	The Permittee shall control emissions from EQUI 3 using water spray control TREA 12 (Water Spray Belt 5) when needed to eliminate visible emissions account for water spray control for emissions inventory purposes. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.3.7	Visible Emissions: The Permittee shall check the emission unit for any visible emission once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.3.8	Recordkeeping of visible emissions: The Permittee shall record the time and date of each visible emissions inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.3.9	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>Corrective actions shall eliminate visible emissions. Corrective actions included, but are not limit to:</p> <ul style="list-style-type: none"> <li>-Operating baghouse control;</li> <li>-Increasing water suppression;</li> <li>-Verifying control systems are operating properly;</li> <li>-Reducing operating rates.</li> </ul>

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	The Permittee shall keep a record of the type and date of any corrective action taken to reduce visible emissions. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]
<b>EQUI 4</b>	<b>Belt 9 to Belt 4</b>
5.4.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.4.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.4.3	Taconite <= 100000 tons per day 24-hour block basis. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.4.4	Taconite: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the tons of taconite processed. This shall be based on written logs. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.4.5	The Permittee shall vent emission from EQUI 4 to control equipment meeting the requirements of fabric filter TREA 21 (Baghouse 3 - Belt 3 or Belt 9 to Belt 4) when needed to eliminate visible emissions or to account for baghouse control for emission inventory purposes, unless the fabric filter is out of commission for maintenance, repair or inspection. [Minn. R. 7007.0800, subp. 2(A) & (B)]
5.4.6	Visible Emissions: The Permittee shall check the emission unit for any visible emission once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.4.7	Recordkeeping of visible emissions: The Permittee shall record the time and date of each visible emissions inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.4.8	Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.  Corrective actions shall eliminate visible emissions. Corrective actions included, but are not limit to: -Operating baghouse control; -Verifying control systems are operating properly; -Reducing operating rates.  The Permittee shall keep a record of the type and date of any corrective action taken to reduce visible emissions. [Minn. R. 7007.0800, subps. 4-5]
<b>EQUI 7</b>	<b>Belt 3 to Belt 4</b>
5.5.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.5.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.5.3	Taconite <= 125000 tons per day 24-hour block basis. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.5.4	Taconite: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the tons of taconite processed. This shall be based on written logs. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.5.5	The Permittee shall vent emission from EQUI 7 to control equipment meeting the requirements of fabric filter TREA 21 (Baghouse 3 - Belt 3 or Belt 9 to Belt 4) when needed to eliminate visible emissions or to account for baghouse control for emission inventory purposes, unless the fabric filter is out of commission for maintenance, repair or inspection. [Minn. R. 7007.0800, subp. 2(A) & (B)]

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5.5.6	The Permittee shall control emissions from EQUI 7 using water spray control TREA 10 (Water Spray Belt 3 to Belt 4) when needed to eliminate visible emissions or to account for water spray control for emissions inventory purposes. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.5.7	Visible Emissions: The Permittee shall check the emission unit for any visible emission once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.5.8	Recordkeeping of visible emissions: The Permittee shall record the time and date of each visible emissions inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.5.9	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>Corrective actions shall eliminate visible emissions. Corrective actions included, but are not limit to:</p> <ul style="list-style-type: none"> <li>-Operating baghouse control;</li> <li>-Increasing water suppression;</li> <li>-Verifying control systems are operating properly;</li> <li>-Reducing operating rates.</li> </ul> <p>The Permittee shall keep a record of the type and date of any corrective action taken to reduce visible emissions. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]</p>
<b>EQUI 8</b>	<b>Belt 4 to Belt 5</b>
5.6.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.6.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.6.3	Taconite <= 185000 tons per day 24-hour block basis. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.6.4	Taconite: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the tons of taconite processed. This shall be based on written logs. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.6.5	The Permittee shall vent emission from EQUI 8 to control equipment meeting the requirements of fabric filter TREA 22 (Baghouse 4 - Belt 4 or Belt 7 to Belt 5) when needed to eliminate visible emissions or to account for baghouse control for emission inventory purposes, unless the fabric filter is out of commission for maintenance, repair or inspection. [Minn. R. 7007.0800, subp. 2(A) & (B)]
5.6.6	The Permittee shall control emissions from EQUI 8 using water spray control TREA 11 (Water Spray Belt 4 to Belt 5) when needed to eliminate visible emissions or to account for water spray control for emissions inventory purposes. [Minn. R. 7007.0800, subp. 2(A) & (B)]
5.6.7	Visible Emissions: The Permittee shall check the emission unit for any visible emission once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.6.8	Recordkeeping of visible emissions: The Permittee shall record the time and date of each visible emissions inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.6.9	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limit to:</p> <ul style="list-style-type: none"> <li>-Operating baghouse control;</li> <li>-Increasing water suppression;</li> </ul>

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	<p>-Verifying control systems are operating properly;            -Reducing operating rates.</p> <p>The Permittee shall keep a record of the type and date of any corrective action taken to reduce visible emissions. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]</p>
<b>EQUI 9</b>	<b>Railcar Unload to 1A &amp; 1B-Cardump bldg</b>
5.7.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.7.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.7.3	Taconite <= 78400 tons per day 24-hour block basis. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.7.4	Taconite: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the tons of taconite processed. This shall be based on written logs. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.7.5	The Permittee shall vent emission from EQUI 9 to control equipment meeting the requirements of fabric filter TREA 18 (Baghouse 1 - Car Dumper) when needed to eliminate visible emissions or to account for baghouse control for emission inventory purposes, unless the fabric filter is out of commission for maintenance, repair or inspection. [Minn. R. 7007.0800, subp. 2(A) & (B)]
5.7.6	Visible Emissions: The Permittee shall check the emission unit for any visible emission once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.7.7	Recordkeeping of visible emissions: The Permittee shall record the time and date of each visible emissions inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.7.8	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>Corrective actions shall eliminate visible emissions. Corrective actions included, but are not limit to:            -Operating baghouse control;            -Verifying control systems are operating properly;            -Reducing operating rates.</p> <p>The Permittee shall keep a record of the type and date of any corrective action taken to reduce visible emissions. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]</p>
<b>EQUI 10</b>	<b>Belt 2 to Belt 3</b>
5.8.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.8.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.8.3	Taconite <= 78400 tons per day 24-hour block basis. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.8.4	Taconite: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the tons of taconite processed. This shall be based on written logs. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.8.5	The Permittee shall vent emission from EQUI 10 to control equipment meeting the requirements of

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	fabric filter TREA 19 (Baghouse 2 - Belt 2 to Belt 3) when needed to eliminate visible emissions or to account for baghouse control for emission inventory purposes, unless the fabric filter is out of commission for maintenance, repair or inspection. [Minn. R. 7007.0800, subp. 2(A) & (B)]
5.8.6	The Permittee shall control emissions from EQUI 10 using water spray control TREA 20 (Belt 2 Spray Bar) when needed to eliminate visible emissions or to account for water spray control for emissions inventory purposes. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.8.7	Visible Emissions: The Permittee shall check the emission unit for any visible emission once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.8.8	Recordkeeping of visible emissions: The Permittee shall record the time and date of each visible emissions inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.8.9	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>Corrective actions shall eliminate visible emissions. Corrective actions included, but are not limit to:            -Operating baghouse control;            -Increasing water suppression;            -Verifying control systems are operating properly;            -Reducing operating rates.</p> <p>The Permittee shall keep a record of the type and date of any corrective action taken to reduce visible emissions. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]</p>
<b>EQUI 24</b>	<b>Distillate Oil</b>
5.9.1	<p>The Permittee shall comply with the following requirements:</p> <p>(1) If the true vapor pressure of the petroleum liquid, as stored, is equal to or greater than 1.5 psia but not greater than 11.1 psia, the storage vessel shall be equipped with a floating roof, a vapor recovery system or their equivalents.</p> <p>(2) If the true vapor pressure of the petroleum liquid, as stored, is greater than 11.1 psia, the storage vessel shall be equipped with a vapor recovery system or its equivalent. [Minn. R. 7011.1505, subp. 3(C)]</p>
<b>EQUI 25</b>	<b>#2 Fuel Oil</b>
5.10.1	<p>The Permittee shall comply with the following requirements:</p> <p>(1) If the true vapor pressure of the petroleum liquid, as stored, is equal to or greater than 1.5 psia but not greater than 11.1 psia, the storage vessel shall be equipped with a floating roof, a vapor recovery system or their equivalents.</p> <p>(2) If the true vapor pressure of the petroleum liquid, as stored, is greater than 11.1 psia, the storage vessel shall be equipped with a vapor recovery system or its equivalent. [Minn. R. 7011.1505, subp. 3(C)]</p>
<b>FUGI 1</b>	<b>Unpaved Roads</b>
5.11.1	Visible Emissions: The Permittee shall check the unpaved roads for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.11.2	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]

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5.11.3	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limited to:            -Applying water or other dust suppressants on main roads, access roads or parking areas.</p> <p>The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]</p>
<b>FUGI 2</b>	<b>Return Belt RB 6 to RB 7</b>
5.12.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.12.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.12.3	Taconite <= 25000 tons per day 24-hour block basis. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.12.4	Taconite: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the tons of taconite processed. This shall be based on written logs. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.12.5	Visible Emissions: The Permittee shall check FUGI 2 for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.12.6	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.12.7	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limited to:            -Reducing operating rates of conveyors.</p> <p>The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subps. 4-5]</p>
<b>FUGI 3</b>	<b>Luffing to Stockpile</b>
5.13.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.13.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.13.3	Taconite <= 100000 tons per day 24-hour block basis. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.13.4	Taconite: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the tons of taconite processed. This shall be based on written logs. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.13.5	The Permittee shall not operate stacker equipment when steady wind speeds exceed 30.0 miles per hour or when wind gusts exceed 45.0 miles per hour unless a vessel is being loaded. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. Stat. 116.07, subd. 4a(a)]
5.13.6	The Permittee shall not operate the stockpile conveyors unless the free fall height from the conveyor

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	belt to the stockpile is 10.0 feet or less after stockpile is established. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. Stat. 116.07, subd. 4a(a)]
5.13.7	The Permittee shall control emissions from FUGI 3 using water spray control TREA 20 (Belt 2 Spray Bar) and TREA 27 (Belt 3 Spray Bar) when needed to eliminate visible emissions. The Permittee shall apply water at a rate sufficient to eliminate visible fugitive emissions or to account for water spray control for emissions inventory purposes. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.13.8	In the event the operation of the water spray is insufficient to eliminate visible fugitive emissions, the Permittee shall immediately reduce the operating rates until fugitive emissions are not visible. [Minn. R. 7007.0800, subp. 2(A) & (B)]
5.13.9	Visible Emissions: The Permittee shall check FUGI 3 for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.13.10	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.13.11	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limited to:</p> <ul style="list-style-type: none"> <li>-Increasing water suppression;</li> <li>-Verifying water suppression systems are operating properly;</li> <li>-Reducing operating rates of conveyors.</li> </ul> <p>The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]</p>
<b>FUGI 4</b>	<b>Bucketwheel to Cast Out</b>
5.14.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.14.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.14.3	Taconite <= 44800 tons per day 24-hour block basis. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.14.4	Taconite: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the tons of taconite processed. This shall be based on written logs. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.14.5	The Permittee shall not operate reclaim equipment when steady wind speeds exceed 30.0 miles per hour or when wind gusts exceed 45.0 miles per hour unless a vessel is being loaded. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. Stat. 116.07, subd. 4a(a)]
5.14.6	Visible Emissions: The Permittee shall check FUGI 4 for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.14.7	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.14.8	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limited to:</p>

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	<p>-Reducing operating rates of conveyors.</p> <p>The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]</p>
<b>FUGI 5</b>	<b>Railcar Unload to Dock 1 Iron Ore</b>
5.15.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.15.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.15.3	Process Throughput <= 13000 tons per day of blast furnace trim on a 24-hour block basis. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.15.4	Process Throughput: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the tons of blast furnace trim processed. This shall be based on written logs. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.15.5	Visible Emissions: The Permittee shall check FUGI 5 for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.15.6	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.15.7	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limited to:            -Reducing operating rates of conveyors.</p> <p>The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]</p>
<b>FUGI 6</b>	<b>Railcar Unload to Dock 2</b>
5.16.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.16.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.16.3	Taconite <= 33600 tons per day 24-hour block basis. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.16.4	Taconite: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the tons of taconite processed. This shall be based on written logs. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.16.5	Visible Emissions: The Permittee shall check FUGI 6 for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.16.6	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.16.7	Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.

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	<p>Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limited to reducing operating rates of conveyors.</p> <p>The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]</p>
<b>FUGI 7</b>	<b>Bucketwheel from Stockpile</b>
5.17.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.17.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.17.3	Taconite <= 90000 tons per day 24-hour block basis. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.17.4	Taconite: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the tons of taconite processed. This shall be based on written logs. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.17.5	The Permittee shall not operate reclaim equipment when steady wind speeds exceed 30.0 miles per hour or when wind gusts exceed 45.0 miles per hour unless a vessel is being loaded. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. Stat. 116.07, subd. 4a(a)]
5.17.6	Visible Emissions: The Permittee shall check FUGI 7 for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.17.7	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.17.8	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limited to:        -Reducing operating rates of conveyors.</p> <p>The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subps. 4-5]</p>
<b>FUGI 9</b>	<b>Stacker to Conveyor 3</b>
5.18.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.18.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.18.3	Taconite <= 90000 tons per day 24-hour block average 24-hour block basis. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.18.4	Taconite: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the tons of taconite processed. This shall be based on written logs. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.18.5	The Permittee shall not operate stacker equipment when steady wind speeds exceed 30.0 miles per hour or when wind gusts exceed 45.0 miles per hour unless a vessel is being loaded. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. Stat. 116.07, subd. 4a(a)]
5.18.6	Visible Emissions: The Permittee shall check FUGI 9 for any visible emissions once each day of

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	operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.18.7	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.18.8	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limited to:                      -Reducing operating rates of conveyors.</p> <p>The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subps. 4-5]</p>
<b>FUGI 10</b>	<b>Dock 2 Pockets to Belt 7</b>
5.19.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.19.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.19.3	Taconite <= 50000 tons per day 24-hour block average 24-hour block basis. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.19.4	Taconite: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the tons of taconite processed. This shall be based on written logs. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.19.5	Visible Emissions: The Permittee shall check FUGI 10 for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.19.6	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.19.7	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limited to:                      -Reducing operating rates of conveyors;</p> <p>The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subps. 4-5]</p>
<b>FUGI 11</b>	<b>Dock 2 to Conveyor RB 6</b>
5.20.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.20.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.20.3	Taconite <= 25000 tons per day 24-hour block basis. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.20.4	Taconite: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the tons of taconite processed. This shall be based on written logs. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]

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5.20.5	Visible Emissions: The Permittee shall check FUGI 11 for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.20.6	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.20.7	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limited to:            -Reducing operating rates of conveyors;</p> <p>The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subps. 4-5]</p>
<b>FUGI 12</b>	<b>Belt 3 to Luffing Stacker</b>
5.21.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.21.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.21.3	Taconite <= 100000 tons per day 24-hour block basis. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.21.4	Taconite: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the tons of taconite processed. This shall be based on written logs. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.21.5	The Permittee shall not operate stacker equipment when steady wind speeds exceed 30.0 miles per hour or when wind gusts exceed 45.0 miles per hour unless a vessel is being loaded. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. Stat. 116.07, subd. 4a(a)]
5.21.6	The Permittee shall control emissions from FUGI 12 using water spray control TREA 20 (Belt 2 Spray Bar) and TREA 27 (Belt 3 Spray Bar) when needed to eliminate visible emissions or to account for water spray control for emissions inventory purposes. The Permittee shall apply water at a rate sufficient to eliminate visible fugitive emissions. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.21.7	In the event the operation of the water spray is insufficient to eliminate visible fugitive emissions, the Permittee shall immediately reduce the operating rates until fugitive emissions are not visible. [Minn. R. 7007.0800, subp. 2(A) & (B)]
5.21.8	Visible Emissions: The Permittee shall check FUGI 12 for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.21.9	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.21.10	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limited to:            -Increasing water suppression;            -Verifying water suppression systems are operating properly;            -Reducing operating rates of conveyors.</p>

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	The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]
<b>FUGI 13</b>	<b>Bucketwheel to Gull Wing</b>
5.22.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.22.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.22.3	Visible Emissions: The Permittee shall check FUGI 13 for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.22.4	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.22.5	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limited to reducing operating rates of conveyors.</p> <p>The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subps. 4-5]</p>
<b>FUGI 15</b>	<b>Bucketwheel Intermediate Transfer</b>
5.23.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.23.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.23.3	Taconite <= 90000 tons per day 24-hour block basis. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.23.4	Taconite: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the tons of taconite processed. This shall be based on written logs. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.23.5	The Permittee shall not operate reclaim equipment when steady wind speeds exceed 30.0 miles per hour or when wind gusts exceed 45.0 miles per hour unless a vessel is being loaded. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. Stat. 116.07, subd. 4a(a)]
5.23.6	Visible Emissions: The Permittee shall check FUGI 15 for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.23.7	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.23.8	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limited to:          -Reducing operating rates of conveyors;</p> <p>The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subps. 4-5]</p>

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<b>FUGI 16</b>	<b>Taconite Stockpile</b>
5.24.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0110]
5.24.2	Visible Emissions: The Permittee shall check FUGI 16 for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.24.3	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subs. 4-5]
5.24.4	Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.  Corrective actions shall eliminate visible emissions.  The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subs. 4-5]
<b>FUGI 17</b>	<b>Gravity Load to Vessel Dock 1 (Nat)</b>
5.25.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.25.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.25.3	Process Throughput <= 23000 tons per day of blast furnace trim on a 24-hour block basis. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.25.4	Process Throughput: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the tons of blast furnace trim processed. This shall be based on written logs. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subs. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.25.5	Visible Emissions: The Permittee shall check FUGI 17 for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.25.6	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subs. 4-5]
5.25.7	Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.  Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limited to: -Reducing operating rates of conveyors.  The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subs. 4-5]
<b>FUGI 18</b>	<b>Belt 5 to Dock 2 pockets</b>
5.26.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.26.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.26.3	Taconite <= 185000 tons per day 24-hour block basis. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.26.4	Taconite: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the tons of taconite processed. This shall be based on written logs. [Minn. R.

Requirement number	Requirement and citation
	7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.26.5	The Permittee shall control emissions from FUGI 18 using water spray control TREA 12 (Water Spray Belt 5) when needed to eliminate visible emissions or to account for water spray control for emissions inventory purposes. The Permittee shall apply water at a rate sufficient to eliminate visible fugitive emissions. [Minn. R. 7007.0800, subp. 2(A) & (B)]
5.26.6	In the event the operation of the water spray is insufficient to eliminate visible fugitive emissions, the Permittee shall immediately reduce the operating rates until fugitive emissions are not visible. [Minn. R. 7007.0800, subp. 2(A) & (B)]
5.26.7	Visible Emissions: The Permittee shall check FUGI 18 for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.26.8	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.26.9	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limited to:            -Increasing water suppression;            -Verifying water suppression systems are operating properly;            -Reducing operating rates of conveyors.</p> <p>The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]</p>
<b>FUGI 19</b>	<b>Bucketwheel to Luffing</b>
5.27.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.27.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.27.3	The Permittee shall not operate reclaim or stacker equipment when steady wind speeds exceed 30.0 miles per hour or when wind gusts exceed 45.0 miles per hour unless a vessel is being loaded. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. Stat. 116.07, subd. 4a(a)]
5.27.4	Visible Emissions: The Permittee shall check FUGI 19 for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.27.5	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.27.6	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limited to:            -Reducing operating rates of conveyors.</p> <p>The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subps. 4-5]</p>
<b>FUGI 20</b>	<b>Bucketwheel to Gull Wing 2</b>
5.28.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]

<b>Requirement number</b>	<b>Requirement and citation</b>
5.28.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.28.3	Visible Emissions: The Permittee shall check FUGI 20 for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.28.4	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.28.5	Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.  Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limited to reducing operating rates of conveyors.  The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subps. 4-5]
<b>FUGI 22</b>	<b>Front End Loader to Railcar</b>
5.29.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.29.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.29.3	Taconite <= 10000 tons per day 24-hour block basis. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.29.4	Taconite: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the tons of taconite processed. This shall be based on written logs. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.29.5	The Permittee shall not conduct reclaim of stockpiles and loading of railcars with front end loaders when steady wind speeds exceed 30.0 miles per hour or when wind gusts exceed 45.0 miles per hour unless a vessel is being loaded. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. Stat. 116.07, subd. 4a(a)]
5.29.6	Visible Emissions: The Permittee shall check FUGI 22 for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.29.7	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.29.8	Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.  Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limited to: -Reducing operating rates.  The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subps. 4-5]
<b>FUGI 26</b>	<b>Vessel Load Gravity Dock 2</b>
5.30.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.30.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R.

Requirement number	Requirement and citation
	7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.30.3	Taconite <= 30000 tons per day 24-hour block basis. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.30.4	Taconite: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the tons of taconite processed. This shall be based on written logs. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.30.5	Once each day of operation during daylight hours, the Permittee shall have a Method 9 certified employee observe emissions during loading operations at Dock No. 2. [Minn. R. 7007.0800, subp. 2(A) & (B)]
5.30.6	Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.  If the Method 9 certified employee observes emissions during loading operations at the dock, the Permittee shall take corrective actions to reduce visible emissions, including but not limited to reducing material handling rates.  The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subp. 2(A) & (B)]
5.30.7	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
<b>FUGI 27</b>	<b>Railcar Unload to Dock 2</b>
5.31.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.31.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.31.3	Taconite <= 44800 tons per day 24-hour block basis. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.31.4	Taconite: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the tons of taconite processed. This shall be based on written logs. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.31.5	Visible Emissions: The Permittee shall check FUGI 27 for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.31.6	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.31.7	Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.  Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limited to reducing operating rates of conveyors.  The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]
<b>FUGI 28</b>	<b>Shiploader to Vessel</b>

Requirement number	Requirement and citation
5.32.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.32.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.32.3	Taconite <= 168000 tons per day 24-hour block basis. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.32.4	Taconite: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the tons of taconite processed. This shall be based on written logs. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.32.5	The Permittee shall control emissions from FUGI 28 using water spray control TREA 12 (Water Spray Belt 5) when needed to eliminate visible emissions or to account for water spray control for emissions inventory purposes. The Permittee shall apply water at a rate sufficient to eliminate visible fugitive emissions. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.32.6	In the event the operation of the water spray is insufficient to eliminate visible fugitive emissions, the Permittee shall immediately reduce the operating rates until fugitive emissions are not visible. [Minn. R. 7007.0800, subp. 2(A) & (B)]
5.32.7	Once each day of operation during daylight hours the Permittee shall have a Method 9 certified employee observe emissions during loading operations. [Minn. R. 7007.0800, subp. 2(A) & (B)]
5.32.8	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>If the Method 9 certified employee observes emissions during loading operations at the dock, the Permittee shall take corrective actions to reduce visible emissions, including but not limited to, starting water control systems and reducing material handling rates.</p> <p>The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subp. 2(A) &amp; (B)]</p>
5.32.9	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
<b>FUGI 30</b>	<b>Pellet Screening</b>
5.33.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.33.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.33.3	The Permittee shall limit Taconite <= 3640 tons per day 24-hour block basis. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.33.4	Operating Hours: Taconite: Daily Recordkeeping. On each day of operation, the Permittee shall monitor, record, and maintain a record of the tons of taconite processed. This shall be based on written logs. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.33.5	Visible Emissions: The Permittee shall check FUGI 30 for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.33.6	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]

Requirement number	Requirement and citation
5.33.7	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limited to:            -Reducing operating rates of conveyors.</p> <p>The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subps. 4-5]</p>
5.33.8	<p>The Permittee is authorized to construct and operate Pellet Screening equipment (FUGI 30) with an operating capacity of 650 tons per hour or less. The authorization to start construction of this equipment expires 18 months after permit issuance of Air Emissions Permit No. 07500005-102. The unit shall meet all applicable permit requirements. [Minn. R. 7007.0800, subp. 2]</p>
<b>FUGI 31</b>	<b>Drop to Fines Pile</b>
5.34.1	<p>Opacity &lt;= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]</p>
5.34.2	<p>Particulate Matter &lt;= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]</p>
5.34.3	<p>The Permittee shall control emissions from FUGI 31 using water spray controls TREA 24 (Feed Conveyor Atomizer), 25 (Screening Atomizer), and 26 (Screening Atomizer) whenever FUGI 31 operates. The Permittee shall apply water at a rate sufficient to eliminate visible fugitive emissions. [Minn. R. 7007.0800, subp. 2(A) &amp; (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]</p>
5.34.4	<p>Visible Emissions: The Permittee shall check FUGI 31 for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]</p>
5.34.5	<p>Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]</p>
5.34.6	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limited to:            -Increasing water suppression;            -Verifying water suppression systems are operating properly;            -Reducing operating rates of conveyors.</p> <p>The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subps. 4-5]</p>
5.34.7	<p>The Permittee is authorized to construct and operate FUGI 31. The authorization to start construction of this equipment expires 18 months after permit issuance of Air Emissions Permit No. 07500005-102. The unit shall meet all applicable permit requirements. [Minn. R. 7007.0800, subp. 2]</p>
<b>FUGI 32</b>	<b>Drop to Screening Process Inlet</b>
5.35.1	<p>Opacity &lt;= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]</p>
5.35.2	<p>Particulate Matter &lt;= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]</p>
5.35.3	<p>The Permittee shall control emissions from FUGI 32 using water spray controls TREA 24 (Feed Conveyor Atomizer) whenever FUGI 32 operates. The Permittee shall apply water at a rate sufficient to eliminate visible fugitive emissions. [Minn. R. 7007.0800, subp. 2(A) &amp; (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]</p>

Requirement number	Requirement and citation
5.35.4	Visible Emissions: The Permittee shall check FUGI 32 for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.35.5	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.35.6	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limited to:            -Increasing water suppression;            -Verifying water suppression systems are operating properly;            -Reducing operating rates of conveyors.</p> <p>The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subps. 4-5]</p>
5.35.7	The Permittee is authorized to construct and operate FUGI 32. The authorization to start construction of this equipment expires 18 months after permit issuance of Air Emissions Permit No. 07500005-102. The unit shall meet all applicable permit requirements. [Minn. R. 7007.0800, subp. 2]
<b>FUGI 33</b>	<b>Drop to Screen from Feed Conveyor</b>
5.36.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
5.36.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.36.3	The Permittee shall control emissions from FUGI 33 using water spray controls TREA 24 (Feed Conveyor Atomizer), 25 (Screening Atomizer), and 26 (Screening Atomizer) whenever FUGI 33 operates. The Permittee shall apply water at a rate sufficient to eliminate visible fugitive emissions. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.36.4	Visible Emissions: The Permittee shall check FUGI 33 for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.36.5	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.36.6	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limited to:            -Increasing water suppression;            -Verifying water suppression systems are operating properly;            -Reducing operating rates of conveyors.</p> <p>The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subps. 4-5]</p>
5.36.7	The Permittee is authorized to construct and operate FUGI 33. The authorization to start construction of this equipment expires 18 months after permit issuance of Air Emissions Permit No. 07500005-102. The unit shall meet all applicable permit requirements. [Minn. R. 7007.0800, subp. 2]
<b>FUGI 34</b>	<b>Drop to Sized Product Pile</b>
5.37.1	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]

Requirement number	Requirement and citation
5.37.2	Particulate Matter <= 0.30 grains per dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. [Minn. R. 7011.0715, subp. 1(A)]
5.37.3	The Permittee shall control emissions from FUGI 34 using water spray controls TREA 24 (Feed Conveyor Atomizer), 25 (Screening Atomizer), and 26 (Screening Atomizer) whenever FUGI 34 operates. The Permittee shall apply water at a rate sufficient to eliminate visible fugitive emissions. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.37.4	Visible Emissions: The Permittee shall check FUGI 34 for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 4]
5.37.5	Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. [Minn. R. 7007.0800, subps. 4-5]
5.37.6	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed.</p> <p>Corrective actions shall eliminate visible emissions. Corrective actions include, but are not limited to:            -Increasing water suppression;            -Verifying water suppression systems are operating properly;            -Reducing operating rates of conveyors.</p> <p>The Permittee shall keep a record of the type and date of any corrective action taken. [Minn. R. 7007.0800, subps. 4-5]</p>
5.37.7	The Permittee is authorized to construct and operate FUGI 34. The authorization to start construction of this equipment expires 18 months after permit issuance of Air Emissions Permit No. 07500005-102. The unit shall meet all applicable permit requirements. [Minn. R. 7007.0800, subp. 2]
<b>TREA 10</b>	<b>Water Spray Belt 3 to Belt 4</b>
5.38.1	The Permittee shall control emissions from EQUI 7 (Belt 3 to Belt 4) using water spray control TREA 10 when needed to eliminate visible emissions or to account for water spray control for emissions inventory purposes. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.38.2	When the water spray is in use, the Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Particulate Matter >= 50 percent control efficiency. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.38.3	When the water spray is in use, the Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron >= 50 percent control efficiency. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.38.4	When the water spray is in use, the Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron >= 50 percent control efficiency. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.38.5	Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the water spray components and complete repairs as necessary. The Permittee shall maintain a written record of the date of each inspection and any action taken as a result of the inspection. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]
5.38.6	The Permittee shall operate and maintain the water spray 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]
<b>TREA 11</b>	<b>Water Spray Belt 4 to Belt 5</b>

<b>Requirement number</b>	<b>Requirement and citation</b>
5.39.1	The Permittee shall control emissions from EQUI 8 using water spray control TREA 11 when needed to eliminate visible emissions or to account for water spray control for emissions inventory purposes. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.39.2	When the water spray is in use, the Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Particulate Matter >= 50 percent control efficiency. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.39.3	When the water spray is in use, the Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron >= 50 percent control efficiency. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.39.4	When the water spray is in use, the Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron >= 50 percent control efficiency. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.39.5	Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the water spray components and complete repairs as necessary. The Permittee shall maintain a written record of the date of each inspection and any action taken as a result of the inspection. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]
5.39.6	The Permittee shall operate and maintain the water spray 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]
<b>TREA 12</b>	<b>Water Spray Belt 5</b>
5.40.1	The Permittee shall control emissions from EQUI 3 (Belt 7 to Belt 5), FUGI 18 (Belt 5 to Dock 2 pockets), and FUGI 28 (Shiploader to Vessel) using water spray control TREA 12 when needed to eliminate visible emissions or to account for water spray control for emissions inventory purposes. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.40.2	When the water spray is in use, the Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Particulate Matter >= 50.0 percent control efficiency. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.40.3	When the water spray is in use, the Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron >= 50.0 percent control efficiency. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.40.4	When the water spray is in use, the Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron >= 50.0 percent control efficiency. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.40.5	Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the water spray components and complete repairs as necessary. The Permittee shall maintain a written record of the date of each inspection and any action taken as a result of the inspection. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]
5.40.6	The Permittee shall operate and maintain the water spray 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]
<b>TREA 18</b>	<b>Baghouse 1 - Car Dumper</b>
5.41.1	The Permittee shall vent emissions from EQUI 9 (Railcar Unload to 1A & 1B-Cardump bldg.) to TREA 18 whenever EQUI 9 operates, and operate and maintain TREA 18 at all times that any emissions are vented to TREA 18. The Permittee shall document periods of non-operation of the control equipment TREA 18 whenever EQUI 9 is operating. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A)]

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	& (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.41.2	<p>If the Permittee replaces TREA 18, the replacement control must meet or exceed the control efficiency requirements of TREA 18 as well as comply with all other requirements of TREA 18. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable.</p> <p>If no amendment is needed for the replacement, the Permittee shall submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) &amp; (B), Minn. Stat. 116.07, subd. 4a(a)]</p>
5.41.3	<p>The Permittee shall operate and maintain control equipment such that it achieves an overall control efficiency for Particulate Matter <math>\geq</math> 79 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A) &amp; (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]</p>
5.41.4	<p>The Permittee shall operate and maintain control equipment such that it achieves an overall control efficiency for PM &lt; 10 micron <math>\geq</math> 74 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A) &amp; (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]</p>
5.41.5	<p>The Permittee shall operate and maintain control equipment such that it achieves an overall control efficiency for PM &lt; 2.5 micron <math>\geq</math> 74 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A) &amp; (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]</p>
5.41.6	<p>Pressure Drop <math>\geq</math> 1.0 and <math>\leq</math> 9.0 inches of water, 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.</p> <p>If the recorded pressure drop is outside the required range, the emissions during that time shall be considered uncontrolled until the pressure drop is once again within the required range. The period of time for which the pressure drop is considered out of range shall be reported as a deviation. The Permittee shall record the pressure drop at least once every 24 hours when in operation. [Minn. R. 7007.0800, subp. 2(A) &amp; (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]</p>
5.41.7	<p>The Permittee shall operate and maintain the fabric filter in accordance with the Operation and Maintenance (O &amp; M) Plan. The Permittee shall keep copies of the O &amp; M Plan available onsite for use by staff and MPCA staff. [Minn. R. 7007.0800, subp. 14]</p>
5.41.8	<p>Visible Emissions: The Permittee shall check the fabric filter stack (STRU 1) for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 2(A) &amp; (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]</p>
5.41.9	<p>Pressure Drop: Reading of Pressure Drop: The Permittee shall read and record the pressure drop across each fabric filter once each day of operation. [Minn. R. 7007.0800, subp. 2(A) &amp; (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]</p>
5.41.10	<p>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. [Minn. R. 7007.0800, subp. 2(A) &amp; (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]</p>
5.41.11	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur:</p> <ul style="list-style-type: none"> <li>- visible emissions are observed;</li> <li>- the recorded pressure drop is outside the required operating range; or</li> <li>- the fabric filter or any of its components are found during the inspections to need repair.</li> </ul>

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	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. 14, Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subp. 5]
5.41.12	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]
5.41.13	The Permittee shall calibrate or replace the pressure drop monitor at least once every 12 months and shall maintain a written record of any action resulting from the calibration. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]
5.41.14	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. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]
5.41.15	Hood Certification and Evaluation: The Permittee shall maintain the most current record of the hood evaluation and certification on site. The control device hood must be evaluated by a testing company as specified in Minn. R. 7011.0072, subp. 2(A) and must conform to the design and operating requirements listed in Minn. R. 7011.0072, subps. 2(B) and 3 and the Permittee shall certify this as specified in Minn. R. 7011.0072, subps. 2 and 3. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.41.16	Annual Hood Evaluation: The Permittee shall measure and record at least once every 12 months the fan rotation speed, fan power draw, or face velocity of each hood, or other comparable air flow parameter that was measured during the most recent hood certification to verify the hood design and operation parameters meet or exceed the parameters measured during the most recent hood evaluation conducted according to Minn. R. 7011.0072, subps. 2 & 3 as required by Minn. R. 7011.0072, subp. 4. The Permittee shall maintain a copy of the annual evaluations on site for 5 years. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
<b>TREA 19</b>	<b>Baghouse 2 - Belt 2 to Belt 3</b>
5.42.1	The Permittee shall vent emissions from EQUI 10 (Belt 2 to Belt 3) to TREA 19 whenever EQUI 10 operates, and operate and maintain TREA 19 at all times that any emissions are vented to TREA 19. The Permittee shall document periods of non-operation of the control equipment TREA 19 whenever EQUI 10 is operating. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.42.2	<p>If the Permittee replaces TREA 19, the replacement control must meet or exceed the control efficiency requirements of TREA 19 as well as comply with all other requirements of TREA 19. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable.</p> <p>If no amendment is needed for the replacement, the Permittee shall submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Minn. R. 7007.0800, subp. 2(A) &amp; (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]</p>
5.42.3	The Permittee shall operate and maintain control equipment such that it achieves an overall control efficiency for Particulate Matter $\geq$ 79 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.42.4	The Permittee shall operate and maintain control equipment such that it achieves an overall control

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	efficiency for PM < 10 micron >= 74 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.42.5	The Permittee shall operate and maintain control equipment such that it achieves an overall control efficiency for PM < 2.5 micron >= 74 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.42.6	<p>Pressure Drop &gt;= 1.0 and &lt;= 9.0 inches of water, 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.</p> <p>If the recorded pressure drop is outside the required range, the emissions during that time shall be considered uncontrolled until the pressure drop is once again within the required range. The period of time for which the pressure drop is considered out of range shall be reported as a deviation. The Permittee shall record the pressure drop at least once every 24 hours when in operation. [Minn. R. 7007.0800, subp. 2(A) &amp; (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]</p>
5.42.7	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]
5.42.8	Visible Emissions: The Permittee shall check the fabric filter stack (STRU 2) for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.42.9	Pressure Drop: Reading of Pressure Drop: The Permittee shall read and record the pressure drop across each fabric filter once each day of operation. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.42.10	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. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.42.11	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur:</p> <ul style="list-style-type: none"> <li>- visible emissions are observed;</li> <li>- the recorded pressure drop is outside the required operating range; or</li> <li>- the fabric filter or any of its components are found during the inspections to need repair.</li> </ul> <p>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 &amp; 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. 14, Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subp. 5]</p>
5.42.12	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]
5.42.13	The Permittee shall calibrate or replace the pressure drop monitor at least once every 12 months and shall maintain a written record of any action resulting from the calibration. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]
5.42.14	Periodic Inspections: At least once per calendar quarter, or more frequently as required by the

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	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. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]
5.42.15	Hood Certification and Evaluation: The Permittee shall maintain the most current record of the hood evaluation and certification on site. The control device hood must be evaluated by a testing company as specified in Minn. R. 7011.0072, subp. 2(A) and must conform to the design and operating requirements listed in Minn. R. 7011.0072, subps. 2(B) and 3 and the Permittee shall certify this as specified in Minn. R. 7011.0072, subps. 2 and 3. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.42.16	Annual Hood Evaluation: The Permittee shall measure and record at least once every 12 months the fan rotation speed, fan power draw, or face velocity of each hood, or other comparable air flow parameter that was measured during the most recent hood certification to verify the hood design and operation parameters meet or exceed the parameters measured during the most recent hood evaluation conducted according to Minn. R. 7011.0072, subps. 2 & 3 as required by Minn. R. 7011.0072, subp. 4. The Permittee shall maintain a copy of the annual evaluations on site for 5 years. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
<b>TREA 20</b>	<b>Belt 2 Spray Bar</b>
5.43.1	The Permittee shall control emissions from EQUI 10 (Belt 2 to Belt 3), FUGI 3 (Luffing to Stockpile), and FUGI 12 (Belt 3 to Luffing Stacker) using water spray control TREA 20 when needed to eliminate visible emissions or to account for water spray control for emissions inventory purposes. The Permittee shall apply water at a rate sufficient to eliminate visible fugitive emissions. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.43.2	When the water spray is in use, the Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Particulate Matter $\geq 50$ percent control efficiency. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.43.3	When the water spray is in use, the Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM $< 10$ micron $\geq 50$ percent control efficiency. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.43.4	When the water spray is in use, the Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM $< 2.5$ micron $\geq 50$ percent control efficiency. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.43.5	Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the water spray components and complete repairs as necessary. The Permittee shall maintain a written record of the date of each inspection and any action taken as a result of the inspection. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]
5.43.6	The Permittee shall operate and maintain the water spray 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]
<b>TREA 21</b>	<b>Baghouse 3 - Belt 3 or Belt 9 to Belt 4</b>
5.44.1	The Permittee shall vent emissions from EQUI 7 (Belt 3 to Belt 4) to TREA 21 whenever EQUI 7 operates, and operate and maintain TREA 21 at all times that any emissions are vented to TREA 21. The Permittee shall document periods of non-operation of the control equipment TREA 21 whenever EQUI 7 is operating. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.44.2	If the Permittee replaces TREA 21, the replacement control must meet or exceed the control efficiency requirements of TREA 21 as well as comply with all other requirements of TREA 21. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment,

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	<p>as applicable.</p> <p>If no amendment is needed for the replacement, the Permittee shall submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Minn. R. 7007.0800, subp. 2(A) &amp; (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]</p>
5.44.3	<p>The Permittee shall operate and maintain control equipment such that it achieves an overall control efficiency for Particulate Matter <math>\geq</math> 79 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A) &amp; (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]</p>
5.44.4	<p>The Permittee shall operate and maintain control equipment such that it achieves an overall control efficiency for PM &lt; 10 micron <math>\geq</math> 74 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A) &amp; (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]</p>
5.44.5	<p>The Permittee shall operate and maintain control equipment such that it achieves an overall control efficiency for PM &lt; 2.5 micron <math>\geq</math> 74 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A) &amp; (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]</p>
5.44.6	<p>Pressure Drop <math>\geq</math> 1.0 and <math>\leq</math> 9.0 inches of water, 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.</p> <p>If the recorded pressure drop is outside the required range, the emissions during that time shall be considered uncontrolled until the pressure drop is once again within the required range. The period of time for which the pressure drop is considered out of range shall be reported as a deviation. The Permittee shall record the pressure drop at least once every 24 hours when in operation. [Minn. R. 7007.0800, subp. 2(A) &amp; (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]</p>
5.44.7	<p>The Permittee shall operate and maintain the fabric filter in accordance with the Operation and Maintenance (O &amp; M) Plan. The Permittee shall keep copies of the O &amp; M Plan available onsite for use by staff and MPCA staff. [Minn. R. 7007.0800, subp. 14]</p>
5.44.8	<p>Visible Emissions: The Permittee shall check the fabric filter stack (STRU 3) for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subp. 2(A) &amp; (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]</p>
5.44.9	<p>Pressure Drop: Reading of Pressure Drop: The Permittee shall read and record the pressure drop across each fabric filter once each day of operation. [Minn. R. 7007.0800, subp. 2(A) &amp; (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]</p>
5.44.10	<p>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. [Minn. R. 7007.0800, subp. 2(A) &amp; (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]</p>
5.44.11	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur:</p> <ul style="list-style-type: none"> <li>- visible emissions are observed;</li> <li>- the recorded pressure drop is outside the required operating range; or</li> <li>- the fabric filter or any of its components are found during the inspections to need repair.</li> </ul> <p>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 &amp; M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for</p>

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	each filter. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subp. 5]
5.44.12	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]
5.44.13	The Permittee shall calibrate or replace the pressure drop monitor at least once every 12 months and shall maintain a written record of any action resulting from the calibration. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]
5.44.14	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. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]
5.44.15	Hood Certification and Evaluation: The Permittee shall maintain the most current record of the hood evaluation and certification on site. The control device hood must be evaluated by a testing company as specified in Minn. R. 7011.0072, subp. 2(A) and must conform to the design and operating requirements listed in Minn. R. 7011.0072, subps. 2(B) and 3 and the Permittee shall certify this as specified in Minn. R. 7011.0072, subps. 2 and 3. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.44.16	Annual Hood Evaluation: The Permittee shall measure and record at least once every 12 months the fan rotation speed, fan power draw, or face velocity of each hood, or other comparable air flow parameter that was measured during the most recent hood certification to verify the hood design and operation parameters meet or exceed the parameters measured during the most recent hood evaluation conducted according to Minn. R. 7011.0072, subps. 2 & 3 as required by Minn. R. 7011.0072, subp. 4. The Permittee shall maintain a copy of the annual evaluations on site for 5 years. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
<b>TREA 22</b>	<b>Baghouse 4 - Belt 4 or Belt 7 to Belt 5</b>
5.45.1	The Permittee shall vent emissions from EQUI 3 (Belt 7 to Belt 5) and EQUI 8 (Belt 4 to Belt 5) to TREA 22 whenever EQUI 3 or EQUI 8 operates, and operate and maintain TREA 22 at all times that any emissions are vented to TREA 22. The Permittee shall document periods of non-operation of the control equipment TREA 22 whenever EQUI 3 or 8 is operating. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.45.2	<p>If the Permittee replaces TREA 22, the replacement control must meet or exceed the control efficiency requirements of TREA 22 as well as comply with all other requirements of TREA 22. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable.</p> <p>If no amendment is needed for the replacement, the Permittee shall submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Minn. R. 7007.0800, subp. 2(A) &amp; (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]</p>
5.45.3	The Permittee shall operate and maintain control equipment such that it achieves an overall control efficiency for Particulate Matter $\geq$ 79 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.45.4	The Permittee shall operate and maintain control equipment such that it achieves an overall control efficiency for PM < 10 micron $\geq$ 74 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a]
5.45.5	The Permittee shall operate and maintain control equipment such that it achieves an overall control

Requirement number	Requirement and citation
	efficiency for PM < 2.5 micron >= 74 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.45.6	<p>Pressure Drop &gt;= 1.0 and &lt;= 9.0 inches of water, 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.</p> <p>If the recorded pressure drop is outside the required range, the emissions during that time shall be considered uncontrolled until the pressure drop is once again within the required range. The period of time for which the pressure drop is considered out of range shall be reported as a deviation. The Permittee shall record the pressure drop at least once every 24 hours when in operation. [Minn. R. 7007.0800, subp. 2(A) &amp; (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]</p>
5.45.7	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]
5.45.8	Visible Emissions: The Permittee shall check the fabric filter stack (STRU 4) for any visible emissions once each day of operation during daylight hours. [Minn. R. 7007.0800, subps. 4-5]
5.45.9	Pressure Drop: Reading of Pressure Drop: The Permittee shall read and record the pressure drop across each fabric filter once each day of operation. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a]
5.45.10	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. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a]
5.45.11	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur:</p> <ul style="list-style-type: none"> <li>- visible emissions are observed;</li> <li>- the recorded pressure drop is outside the required operating range; or</li> <li>- the fabric filter or any of its components are found during the inspections to need repair.</li> </ul> <p>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 &amp; 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. 14, Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subp. 5]</p>
5.45.12	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]
5.45.13	The Permittee shall calibrate or replace the pressure drop monitor at least once every 12 months and shall maintain a written record of any action resulting from the calibration. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]
5.45.14	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. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]
5.45.15	Hood Certification and Evaluation: The Permittee shall maintain the most current record of the hood

Requirement number	Requirement and citation
	evaluation and certification on site. The control device hood must be evaluated by a testing company as specified in Minn. R. 7011.0072, subp. 2(A) and must conform to the design and operating requirements listed in Minn. R. 7011.0072, subps. 2(B) and 3 and the Permittee shall certify this as specified in Minn. R. 7011.0072, subps. 2 and 3. [Minn. R. 7007.0800, subp. 2, Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
5.45.16	Annual Hood Evaluation: The Permittee shall measure and record at least once every 12 months the fan rotation speed, fan power draw, or face velocity of each hood, or other comparable air flow parameter that was measured during the most recent hood certification to verify the hood design and operation parameters meet or exceed the parameters measured during the most recent hood evaluation conducted according to Minn. R. 7011.0072, subps. 2 & 3 as required by Minn. R. 7011.0072, subp. 4. The Permittee shall maintain a copy of the annual evaluations on site for 5 years. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a]
<b>TREA 24</b>	<b>Feed Conveyor Atomizer</b>
5.46.1	The Permittee shall control emissions from FFUGI 30 (Pellet Screening), 31 (Drop to Fines Pile), 32 (Drop to Screening Process Inlet), 33 (Drop to Screen from Feed Conveyor), and 34 (Drop to Sized Product Pile) using water spray control TREA 24 whenever the pellet screening equipment is operated. The Permittee shall apply water at a rate sufficient to eliminate visible fugitive emissions. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7007.subp. 14]
5.46.2	When the water spray is in use, the Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Particulate Matter $\geq$ 75 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A) & (B)]
5.46.3	When the water spray is in use, the Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron $\geq$ 75 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A) & (B)]
5.46.4	When the water spray is in use, the Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron $\geq$ 75 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A) & (B)]
5.46.5	Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the water spray components and complete repairs as necessary. The Permittee shall maintain a written record of the date of each inspection and any action taken as a result of the inspection. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]
5.46.6	The Permittee shall operate and maintain the water spray 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]
<b>TREA 25</b>	<b>Screening Atomizer</b>
5.47.1	The Permittee shall control emissions from FUGI 30 (Pellet Screening), 31 (Drop to Fines Pile), 32 (Drop to Screening Process Inlet), 33 (Drop to Screen from Feed Conveyor), and 34 (Drop to Sized Product Pile) using water spray control TREA 25 whenever the pellet screening equipment is operated. The Permittee shall apply water at a rate sufficient to eliminate visible fugitive emissions. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.47.2	When the water spray is in use, the Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Particulate Matter $\geq$ 75 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A) & (B)]
5.47.3	When the water spray is in use, the Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron $\geq$ 75 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A) & (B)]
5.47.4	When the water spray is in use, the Permittee shall operate and maintain the control equipment such

Requirement number	Requirement and citation
	that it achieves an overall control efficiency for PM < 2.5 micron >= 75 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A) & (B)]
5.47.5	Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the water spray components and complete repairs as necessary. The Permittee shall maintain a written record of the date of each inspection and any action taken as a result of the inspection. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]
5.47.6	The Permittee shall operate and maintain the water spray 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]
<b>TREA 26</b>	<b>Screening Atomizer</b>
5.48.1	The Permittee shall control emissions from FUGI 30 (Pellet Screening), 31 (Drop to Fines Pile), 32 (Drop to Screening Process Inlet), 33 (Drop to Screen from Feed Conveyor), and 34 (Drop to Sized Product Pile) using water spray control TREA 26 when needed to eliminate visible emissions. The Permittee shall apply water at a rate sufficient to eliminate visible fugitive emissions. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.48.2	When the water spray is in use, the Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Particulate Matter >= 75 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A) & (B)]
5.48.3	When the water spray is in use, the Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron >= 75 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A) & (B)]
5.48.4	When the water spray is in use, the Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron >= 75 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A) & (B)]
5.48.5	Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the water spray components and complete repairs as necessary. The Permittee shall maintain a written record of the date of each inspection and any action taken as a result of the inspection. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]
5.48.6	The Permittee shall operate and maintain the water spray 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]
<b>TREA 27</b>	<b>Belt 3 Spray Bar</b>
5.49.1	The Permittee shall control emissions from FUGI 3 (Luffing to Stockpile), and FUGI 12 (Belt 3 to Luffing Stacker) using water spray control TREA 27 when needed to eliminate visible emissions or to account for water spray control for emissions inventory purposes. The Permittee shall apply water at a rate sufficient to eliminate visible fugitive emissions. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.49.2	When the water spray is in use, the Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Particulate Matter >= 50 percent control efficiency. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.49.3	When the water spray is in use, the Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron >= 50 percent control efficiency. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]
5.49.4	When the water spray is in use, the Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron >= 50 percent control efficiency. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A) & (B)]

Requirement number	Requirement and citation
5.49.5	Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the water spray components and complete repairs as necessary. The Permittee shall maintain a written record of the date of each inspection and any action taken as a result of the inspection. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subps. 4-5]
5.49.6	The Permittee shall operate and maintain the water spray 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]

## 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.

Requirement number	Requirement and citation
<b>TFAC 1</b>	<b>Wisconsin Central Ltd Two Harbors Facility</b>
6.1.1	The Permittee must submit a semiannual deviations report : Due semiannually, by the 30th of January and July. The first semiannual report submitted by the Permittee must 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. Submit this on form DRF-2 (Deviation Reporting Form). If no deviations have occurred, submit the signed report certifying that there were no deviations. [Minn. R. 7007.0800, subp. 6(B)(2)]
6.1.2	The Permittee must submit a compliance certification : Due annually, by the 31st of January (for the previous calendar year). Submit this on form CR-04 (Annual Compliance Certification Report). This report covers all deviations experienced during the calendar year. If no deviations have occurred, submit the signed report certifying that there were no deviations. [Minn. R. 7007.0800, subp. 6(D)]
<b>FUGI 30</b>	<b>Pellet Screening</b>
6.2.1	The Permittee shall submit a notification of the date construction of the pellet screening equipment (FUGI 30) began: Due 30 calendar days after the date construction began. Submit the name and number of the Subject Item and the date construction began.  The notification shall be submitted electronically on Form CS-02. [Minn. R. 7007.0800, subp. 16(L)]
6.2.2	The Permittee shall submit a notification of the actual date of initial startup of the pellet screening equipment (FUGI 30): Due 15 calendar days after the date the equipment was started up. Submit the name and number of the Subject Items and the date of startup. Startup is as defined in Minn. R. 7005.0100, subp. 42a.  The notification shall be submitted electronically on Form CS-02. [Minn. R. 7007.0800, subp. 16(L)]
<b>FUGI 31</b>	<b>Drop to Fines Pile</b>
6.3.1	The Permittee shall submit a notification of the date construction of FUGI 31 began: Due 30 calendar days after the date construction began. Submit the name and number of the Subject Item and the date construction began.  The notification shall be submitted electronically on Form CS-02. [Minn. R. 7007.0800, subp. 16(L)]
6.3.2	The Permittee shall submit a notification of the actual date of initial startup of FUGI 31: Due 15 calendar days after the date the equipment was started up. Submit the name and number of the Subject Items and the date of startup. Startup is as defined in Minn. R. 7005.0100, subp. 42a.

Requirement number	Requirement and citation
	The notification shall be submitted electronically on Form CS-02. [Minn. R. 7007.0800, subp. 16(L)]
<b>FUGI 32</b>	<b>Drop to Screening Process Inlet</b>
6.4.1	The Permittee shall submit a notification of the date construction of FUGI 32 began: Due 30 calendar days after the date construction began. Submit the name and number of the Subject Item and the date construction began.
	The notification shall be submitted electronically on Form CS-02. [Minn. R. 7007.0800, subp. 16(L)]
6.4.2	The Permittee shall submit a notification of the actual date of initial startup of FUGI 32: Due 15 calendar days after the date the equipment was started up. Submit the name and number of the Subject Items and the date of startup. Startup is as defined in Minn. R. 7005.0100, subp. 42a.
	The notification shall be submitted electronically on Form CS-02. [Minn. R. 7007.0800, subp. 16(L)]
<b>FUGI 33</b>	<b>Drop to Screen from Feed Conveyor</b>
6.5.1	The Permittee shall submit a notification of the date construction of FUGI 33 began: Due 30 calendar days after the date construction began. Submit the name and number of the Subject Item and the date construction began.
	The notification shall be submitted electronically on Form CS-02. [Minn. R. 7007.0800, subp. 16(L)]
6.5.2	The Permittee shall submit a notification of the actual date of initial startup of FUGI 33: Due 15 calendar days after the date the equipment was started up. Submit the name and number of the Subject Items and the date of startup. Startup is as defined in Minn. R. 7005.0100, subp. 42a.
	The notification shall be submitted electronically on Form CS-02. [Minn. R. 7007.0800, subp. 16(L)]
<b>FUGI 34</b>	<b>Drop to Sized Product Pile</b>
6.6.1	The Permittee shall submit a notification of the date construction of FUGI 34 began: Due 30 calendar days after the date construction began. Submit the name and number of the Subject Item and the date construction began.
	The notification shall be submitted electronically on Form CS-02. [Minn. R. 7007.0800, subp. 16(L)]
6.6.2	The Permittee shall submit a notification of the actual date of initial startup of FUGI 34: Due 15 calendar days after the date the equipment was started up. Submit the name and number of the Subject Items and the date of startup. Startup is as defined in Minn. R. 7005.0100, subp. 42a.
	The notification shall be submitted electronically on Form CS-02. [Minn. R. 7007.0800, subp. 16(L)]

7. Appendices

**Appendix A. 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(C)(1)	Gasoline storage tanks with a combined total tankage capacity of not more than 10,000 gallons <ul style="list-style-type: none"> <li>• The Permittee operates one gasoline storage tank with a capacity of 10,000 gallons</li> </ul>	Minn. R. 7011.1505, subp. 3(B)
Minn. R. 7007.1300, subp. 3(E)	Brazing, soldering, torch-cutting, or welding equipment <ul style="list-style-type: none"> <li>• The Permittee operates welding equipment</li> </ul>	PM, variable depending on airflow Opacity <= 20% (Minn. R. 7011.0715)
Minn. R. 7007.1300, subp. 3(F)	Individual units with potential emissions less than 2000 lb/year of certain pollutants <ul style="list-style-type: none"> <li>• The Permittee operates one 10,000 gallon #2 fuel oil storage tank; and</li> <li>• 11 space heaters ranging in size from 30,000 BTU to 420,000 BTU. Each qualifies individually under this subpart.</li> </ul>	For the fuel oil tank: Minn. R. 7011.1505, subp. 3(B)  For the space heaters: PM, variable depending on airflow Opacity <= 20% (Minn. R. 7011.0715)

**Appendix B. Fugitive Dust Control Plan**

# Duluth Missabe and Iron Range Railway Two Harbors Fugitive Emissions Control Plan

Prepared for: James Cone, Jr.

Facility Dock Foreman

Wisconsin Central, Ltd.

Two Harbors Docks

PO Box 509

Two Harbors, MN 55616

May 11, 2020

## Executive Summary

This plan outlines measures that will be taken by the DM&IR to control fugitive particulate matter emissions at its transshipment facility in Two Harbors, Minnesota. Fugitive emissions are emissions that do not pass through a stack. Fugitive emissions at the site are generated from the material storage piles, conveyor transfer points, rail car unloading, loading and unloading at the docks, and from vehicle travel on unpaved areas.

The DM&IR has worked extensively with the MPCA and various consulting companies to develop sophisticated methods of ensuring that its emissions do not lead to the exceedance of ambient air quality standards in the area surrounding facility.

This plan specifies operational practices, monitoring requirements, and recordkeeping methods. Operational practices include actions that are meant to preclude the generation of particulates in the first place. They include methods of material handling and transfer, non-operation under windy conditions, suspension or reduction of operations when visible dust is being generated, and water sprays to increase the moisture content of the materials being handled. Water or surfactants are used on unpaved areas. Some of the dust suppression responsibility lies with the mine of origin.

Monitoring and Recordkeeping Requirements are intended to ensure that none of these Operational Practices are inadvertently overlooked and to ensure that ambient concentrations of particulate are not exceeding ambient standards. To reduce emissions at the rail unloading building, the process is conducted within an enclosure, vented to a fabric filter. The conveyor transfer points are largely enclosed, with four of them being enclosed and vented. The DM&IR has added water sprays at several points as well, and uses wet suppression methods and bag filters as its primary control techniques. When more moisture is necessary that can be provided by the water sprays, the DM&IR operates a deluge system.

Emissions resulting from vehicle traffic are controlled through chemical or water dust suppression methods. Wind screens have also been constructed to protect rail car unloading and ship loading from the wind. Past extensive monitoring at the site proved that these methods, working in concert, are all effective. The DM&IR had installed two ambient monitors near the site; one east of the facility in the park closest to the dock, and one in the cemetery northwest of the facility. Those monitors showed that the last 3 years of operation showed that ambient standards were not exceeded. The monitors were then shut down.

These monitors, as were operated, produced results by sampling of the ambient air. The monitoring stations were operated every six days, and for a period of 24 hours. This operating time is consistent with the averaging time of the particulate ambient standard. The filters were removed and weighed at an independent lab after each day of the monitor's operation. Results were available monthly.

## Fugitive Control Operational Practices

Affected Unit	Requirement
Stockpile	Do not operate the stockpile conveyors unless the free fall height from the conveyor belt to the stockpile is ten feet or less after the stockpile is established
Reclaim, Stacker and Rail and Truck Loading	Do not operate the reclaim, stacker equipment, or rail and truck loading when steady wind speeds exceed 30 mph or when wind gusts exceed 45 mph unless a vessel is being loaded.
Access Areas, Roads and Parking Areas	Apply water or appropriate dust suppression chemicals by water truck to the main roads, access and parking areas to the extent necessary to prevent particulate matter from becoming airborne. Have a water truck available and submit quarterly reports indicating when the truck is unavailable.  Limit traffic to 10 mph
Winterized Wet Suppression Systems	Operate the winterized water spray systems any time during operations when fugitive emissions are visible at any conveyor point. The rate of water application shall be based on the amount of dust suppression required to significantly reduce emissions.
Seasonal Wet Suppression Systems	Operate during the non-freezing season anytime the fugitive emissions are visible at any conveyor transfer point.
Water Suppression Systems in General	Anytime that the operation of the water spray systems at rated capacity is insufficient to significantly reduce fugitive emissions, reduce the belt loading rate until fugitive emissions are not visible.  Submit a quarterly report indicating the hours each day for each quarter period in which pellets or natural ore were handled without the operation of the wet suppression systems
Rail and Truck Loading	Control fugitive emissions by wet suppression methods whenever feasible
Wind Break	Maintain wind break for ship loading
Water Deluge System (Seasonal based on ambient temperatures)	Use if excessive fugitive dust emissions are observed while a train is being unloaded into dock pockets. Each remaining railcar in that train will be treated to reduce the excess fugitive emissions before further unloading of that train commences.

## Monitoring

Requirement	Responsible Party
Daily Fabric Filter and Water Spray Monitoring: Once each day of operation, for each emissions unit, record the following: 1) Whether the associated control equipment was in use; 2) If the control equipment is not in use, the reason it was not in use; 3) The date and time operation of the control equipment operation starts, and 4) The date and time the control equipment operation stops	Port Manager Assigns
Performance Test : Notification 30 days prior	Contracted testing firm

Test Plan 30 days prior Pre-test meeting 7 days prior Test reports 45 days and 105 days following test Test due between June 15 and And October 15 each year	
Wet Suppression: Track times when wet suppression system is not used while handling material.	Port Manager will provide information to Air Consultant for inclusion in quarterly report.
Retain an employee certified in Method 9 and observe emissions when loading and unloading.	Port Manager
Check and record visible emissions at each source	Port Manager
Watering Truck Report	Port Manager, Port Manager will send to Air Consultant for submittal with other quarterly reports
Utilize Deluge Water System for BFT that does not result in discharge of process wastewater to waters of the state. (BFT is scheduled to be moved to Duluth)	Port Manager
Keep detailed records of facility activities to help identify conditions that cause violations. This includes dust suppression applied to roads.	Port Manager
Real Time Monitoring of winds with Alarm and recordkeeping of; times when alarms are triggered, identification of the alarm, and any corrective steps taken.	Contracted meteorological monitoring firm operates the onsite weather vanes and records the meteorological data at their office. Notifications and records are submitted to Dock Management.

### Fugitive Emissions Control Records Required

<b>Recordkeeping Requirement</b>
<i>Maintain all records for 5 years.</i>
Keep detailed site activity logbooks
Meteorological data
Notations of the time that any wind alarms were triggered and corrective measures taken including shutdown.
Water truck availability and records of water/surfactant application on roads
Records of non-operation of spray systems during operation
Employee's certification of Method 9
Records of any contractors on site that include any crushers, screens and conveyors. To be included are company name, MPCA air emissions permit number, short description of activities, estimate of the emissions or materials handled and the dates the contractor was on site. Update at least monthly.
Any corrective actions taken to repair pollution control equipment or to reduce emissions when observed.
Stack test results.

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**Appendix C. Parameters used in modeling for permit #07500005-102**

Area Source Parameters

Permit ID	AERMOD ID	Pollutant	Averaging Time	X1 (m)	Y1 (m)	Base Elev. (m)	Emission Rate (g/sec/m2)	Emission Rate (lb/hr/ft2)	Height (m)	Length X (m)	Length Y (m)	Rotation Angle (deg)	Sigma z (m)	Description
FUGI 16 /FS017	WCTAS017	PM10	24 hour	599808.2	5207893.1	203.31	2.28285E-06	5.80415E-08	10.67	600	200	NA	4.96186047	taconite storage pile

Volume Source Parameters

Permit ID	AERMOD ID	Pollutant	Averaging Time	Easting (m)	Northing (m)	Base Elev. (m)	Emission Rate (lb/hr)	Emission Rate (g/sec)	Height (m)	SigmaY (m)	SigmaZ (m)	LengthX (m)	Description
NA (uncaptured portion of EQUI 9)	WCTVL030	PM10	24 hour	599787	5208066	207.15	1.475246987	0.185881120	4.27	2.55	8.53	10.97	Baghouse #1 Fugitives - no permit number, added FS030
NA (uncaptured portion of EQUI 10)	WCTVL031	PM10	24 hour	599769	5207873	203.00	1.888873509	0.237998062	12.192	2.55	2.84	10.97	Baghouse #2 Fugitives - no permit number, added FS031
NA (uncaptured portion of EQUI 7)	WCTVL032	PM10	24 hour	600488	5207903	193.92	0.266505575	0.033579702	10.67	1.97	4.96	8.51	Baghouse #3 Fugitives - no permit number, added FS032
NA (uncaptured portion of EQUI 8)	WCTVL033	PM10	24 hour	600419	5207644	190.79	1.657799473	0.208882734	27.43	2.55	1.42	10.97	Baghouse #4 Fugitives - no permit number, added FS033
NA (uncaptured portion of EQUI 3)	WCTVL034	PM10	24 hour	600419	5207644	190.79	0.448053911	0.056454793	27.43	2.55	1.42	10.97	Baghouse #4 Fugitives - no permit number, added FS034
NA (uncaptured portion of EQUI 4)	WCTVL035	PM10	24 hour	600488	5207903	193.92	0.213204460	0.026863762	10.67	1.97	4.96	8.51	Baghouse #3 Fugitives - no permit number, added FS035
FUGI 3/FS001	WCTVL001	PM10	24 hour	600273	5207849	201.23	6.163488842	0.776599594	24.00	0.212	0.319	0.912	Stacker to Stockpile
FUGI 7/FS002	WCTVL002	PM10	24 hour	600273	5207849	201.23	0.1725	0.021735	2.44	2.13	1.13	9.14	Bucketwhl. Reclaim from Stck.
FUGI 15/FS003	WCTVL003	PM10	24 hour	600723	5207849	201.50	0.131161002	0.016526286	2.06	0.319	0.478	1.37	Bucketwheel Intermediate Transfer

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FUGI 19/FS006	WCTVL006	PM10	24 hour	600239	5207776	201.46	0.568934481	0.071685745	2.74	0.425	0.430	1.83	Bucketwhl. To Stacker/Reclaim
FUGI 4/FS007	WCTVL007	PM10	24 hour	600272	5207811	190.50	0.283202941	0.035683571	12.19	0.319	0.478	5.67	Bucketwheel to Cast Out
FUGI 22/FS008	WCTVL008	PM10	24 hour	600073	5207937	190.50	0.616348884	0.077659959	3.66	3.048		1.70	Front-End Loader to Rail Cars.
FUGI 27/FS010	DOCKVL010	PM10	24 hour	600552	5207860	184.42	0.018555545	0.002337999	24.38	0.28	11.76	1.22	Rail Unld. To Dk. 2 Pockets (tubes)
FUGI 6/FS011	DOCKVL11	PM10	24 hour	600702	5207782	190.50	2.070932251	0.260937464		NA	NA		Rail Unloading to Gravity Pockets
FUGI 28/FS012	DOCKVL012	PM10	24 hour	600681	5207799	183.24	1.70788218	0.215193155	25.908	NA	NA	1.2192	Shiploader to Vessel
FUGI 26/FS014	DOCKVL14	PM10	24 hour	600748	5207777	190.50	1.849046653	0.232979878		NA	NA	0	Gravity Ld. To Vessel Dock 2 (tac)
FUGI 5/FS015	DOCKVL015	PM10	24 hour	600712.4	5207898.81	184.74	0.206478154	0.026015789	25.91	0.28	11.76	1.22	Rail Unld. To Dock 1 Pkts.(Nat)
FUGI 17/FS016	DOCKVL016	PM10	24 hour	600712	5207898	184.74	0.365307503	0.046027934	24.38	NA	NA	1.22	Gravity Ld. To Ves. Dock 1(Nat)
FUGI 1/FS021	ROADVL001	PM10	24 hour	1514	0.93454227	203.56	0.261134959	0.032903005	3.111	1.45	1.75	7.52	Unpaved Roads - Pile Haul Road.
FUGI 1/FS021	ROADVL002	PM10	24 hour	593.9	0.36903235	200.83	0.103117056	0.012992749	3.111	1.45	1.75	7.52	Unpaved Roads - Beginning of road to offices.
FUGI 1/FS021	ROADVL003	PM10	24 hour	326	0.20256701	195.28	0.056602391	0.007131901	3.11	1.45	1.75	7.52	Unpaved Roads - Road east side of pile
FUGI 1/FS021	ROADVL005	PM10	24 hour	792.8	0.49461147	204.66	0.138207066	0.01741409	3.11	1.45	1.75	7.52	Unpaved Roads - Road around north of building
FUGI 1/FS021	ROADVL006	PM10	24 hour	174	0.10811859	190.81	0.030211092	0.003806598	3.111	1.45	1.75	7.52	Unpaved Roads - Road along conveyor 4
FUGI 1/FS021	ROADVL007	PM10	24 hour	457.9	0.64114322	200.85	0.179151778	0.022573124	3.111	1.45	1.75	7.52	Unpaved Roads - Road North 2
FUGI 1/FS021	ROADVL008	PM10	24 hour	1162.1	0.71147002	201.28	0.198802878	0.025049163	3.111	1.45	1.75	7.52	Unpaved Roads - Roads past offices
FUGI 12/FS022	WCTVL022	PM10	24 hour	600233	5207715	201.28	0.404803007	0.051005179	1.82	0.425	0.851	1.8288	Belt 3 Transfer to Luffing Stacker
FUGI 18/FS023	DOCKVL023	PM10	24 hour	600682	5207799	183.24	11.40245436	1.436709249	24.38	0.28	0.42	1.2192	Dock Belt 5 to Dock 2 Pockets
FUGI 11/FS024	DOCKVL24	PM10	24 hour	600894	5207697	201.48	0.02561808	0.003227878	3.048	0.46512		1.2192	Shipldr. Dock 2 Purge to Rtn. Belt RB6

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FUGI 2/FS025	WCTVL025	PM10	24 hour	600752	5207762	193.24	0.02561808	0.003227878	3.048	2	1.42	1.2192	Return Belt RB6 to RB7
FUGI 10/FS026	DOCKVL026	PM10	24 hour	600680	5207796	183.24	0.40324852	0.006455756	6.096	10.3632	1.42	1.200	Storage Pockets to RB7
FUGI 9/FS028	WCTVL028	PM10	24 hour	600240	5207777	201.48	0.225761273	0.02844592	2.7432	0.428	0.638	1.8288	Stacker to Conv #3
FUGI 30-34	WCTVL036	PM10	24 hour	599826	5207818	201.48	0.498138245	0.062764312	3.048	5.6707	1.41767	24.384	Screening Setup modeled as one cubed volume source.