Attachment 3: Permit No. 12300055-004; Title I SIP conditions only

AIR EMISSION PERMIT NO. 12300055-004
(Part 70 Reissuance)

IS ISSUED TO

Gerdau Ameristeel US Inc

GERDAU AMERISTEEL US INC - ST PAUL MILL
1678 Red Rock Road
St. Paul, Ramsey County, MN 55119

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

This permit reissuance supersedes Air Emission Permit No. **12300055-002** and authorizes the Permittee to modify and operate the stationary source at the address listed above unless otherwise noted in Table A. The Permittee must comply with all the conditions of the permit. Any changes or modifications to the stationary source must be performed in compliance with Minn. R. 7007.1150 to 7007.1500, and any additions or changes to conditions incorporated into Minnesota's State Implementation Plan (SIP) under 40 CFR § 52.1220, designated "Title I: SIP for particulate matter less than 10 microns (PM_{10})" must go through the federal SIP approval process before becoming effective. Terms used in the permit are as defined in the state air pollution control rules unless the term is explicitly defined in the permit.

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

Permit Type: Federal; Pt. 70; Title I SIP Conditions PM_{10}

Authorization to Construct (40 CFR pt. 51 and 52) Issuance Date: August 28, 2008

Operating Permit Issue Date:

Expiration Date: – All Title I Conditions do not expire.

Each new or revised condition designated "Title I Condition: SIP for PM_{10}" is not effective or enforceable until approved by EPA as a SIP revision under Title I of the Clean Air Act.

for Don Smith, Manager
Air Quality Permits Section
Industrial Division

for Brad Moore
Commissioner
Minnesota Pollution Control Agency

Permit Applications Table

Permit Type	Application Date	Permit Action
Total Facility Operating Permit -Reissuance	04/27/2007	004
Major Modification Application	02/26/2008, final revision submitted 07/11/2008	004

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NOTICE TO THE PERMITTEE:

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

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

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

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

PERMIT SHIELD:

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

FACILITY DESCRIPTION:

This permit is a Joint Title I State Implementation Plan (SIP)/Title V Permit, which includes non-expiring Title I conditions to implement the SIP pursuant to 40 CFR pt. 50, 40 CFR pt. 51, 40 CFR Section 52.1220, Minn. R. 7007.0100 subp. 25B, and Minn. R. 7007.1050, subp. 4.

Gerdau Ameristeel (formerly North Star Steel) operates a steel mini-mill in St. Paul, Minnesota. The mill receives recycled automobile bodies, tin cans from refuse-derived fuel recycling operations, recycled white goods, and other grades of scrap steel, by truck and rail. The automobile bodies, tin cans, and white goods are shredded in a hammermill and the shredded steel is separated from non-ferrous materials. Dust control equipment on the shredder includes a wet scrubber, cyclone and zbox/cyclone incorporated into one unit (CE 010).

The scrap steel is refined and converted into steel alloys in the electric arc furnace (EAF) and ladle refining station. During melting and refining, emissions are exhausted through a direct evacuation duct into fabric filter baghouses. Dust collected in the baghouses falls into hoppers under each compartment, and is removed by augers. A pneumatic conveying system transports the dust from the augers to a storage silo. From the silo it is transferred to railroad hopper cars or trucks for shipment to a recycling facility.

Molten steel is cast into billets by a continuous casting machine. The billets are sold as such or are reheated in a reheat furnace and hot-rolled into various structural shapes in a rolling mill.

This permit action authorizes a modification to the EAF and lime additive system at the facility. Two new lime additive silos will be replacing the existing ones. Two lime injection ports and two oxygen injection ports will be installed in the sidewall of the EAF. The four injection ports each include a natural gas fired burner that will be used to aid in the initial heating in the EAF and shroud the injected media (lime and oxygen) as it enters the molten steel within the EAF.

The facility is located in an area that was previously designated as non-attainment for PM_{10}. However, the area currently meets the ambient air quality standards, and was officially redesignated as “attainment” on September 24, 2002. The facility has been subject to an administrative order (part of Minnesota’s SIP, for attaining and maintaining ambient air quality standards) containing requirements contributing to the correction of the non-attainment problem and the ultimate redesignation. The requirements of that order have been incorporated into this permit as non-expiring Title I conditions. This permit will ultimately replace the administrative order and be incorporated into the SIP.

The facility is a major source under federal New Source Review and the Part 70 permit program.

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Gerdau Ameristeel US Inc - St Paul Mill

Permit Number: 12300055 - 004

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

Subject Item: **Total Facility**

What to do	Why to do it
FACILITY-SPECIFIC REQUIREMENTS	hdr
STATE IMPLEMENTATION PLAN (SIP) REQUIREMENTS	hdr
Activities Not Requiring A Modification To The SIP: The Permittee is authorized to make changes to the facility without obtaining a modification to the SIP as long as the change does not increase from any emission point, the PM10 emission rates (either lb/hr or gr/dscf) or overall PM10 emissions, or alter equipment or parameters described in Appendix B, which forms the basis of the PM10 modeling.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Remodeling for Attainment Demonstration: Before making any physical changes, including construction or modification of structures that increase effective structural dimensions, or changes to the method of operation which may affect parameters listed in Appendix B, the Permittee shall demonstrate to the MPCA that the PM10 plume dispersion characteristics following the physical change or change in method of operation will be equivalent to or better than the PM10 dispersion characteristics modeled using the parameters in Appendix B. The information submitted must include stacks, locations and dimensions of nearby buildings, the velocity and temperature of the gasses emitted, and the PM10 emission rates. If the information does not demonstrate equivalent or better dispersion characteristics, or if a conclusion cannot be readily made about the dispersion, the Permittee must remodel.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Activities Requiring A Modification To The SIP: Acitivities requiring a modification of the SIP prior to the Permittee commencing the activity include, but are not limited to: 1. Any decrease in the design stack gas volumetric flow rate below that indicated in Appendix B; 2. Any decrease in the design stack gas exit temperature below that contained in Appendix B; 3. Any reduction in stack height below that indicated in Appendix B; 4. Any increase in stack exit diameter above that contained in Appendix B; and/or	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
General Operation and Maintenance Requirements for the SIP: The Permittee shall operate and maintain the process and control equipment described in Appendix B according to the parameters set forth in Appendix B.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Production: less than or equal to 3000 tons/day of steel billet tons cast.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
The Permittee shall cover all shredder residue haul trucks and flue dust (K061) railcars leaving the facility.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Recordkeeping: Unless otherwise noted in the permit, retain all records at the stationary source for a period of six (6) years from the date of monitoring, sample, measurement, or report. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A) unless otherwise noted.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7007.0800, subp. 5(C)

Facility Name: Gerdau Ameristeel US Inc - St Paul Mill

Permit Number: 12300055 - 004

Required Records: The following records must be retained at the facility: a. all calibration and maintenance records for control equipment and associated monitoring devices; b. all original recordings for continuous monitoring instrumentation (if any); c. copies of all reports required by the permit; d. date, time, and cause of each unscheduled startup and shutdown, bypass, or breakdown of process equipment, control equipment, fuel supply system, stack, and monitoring system, if it may cause an increase in emissions of a regulated pollutant; e. the cause, magnitude, and date and time of commencement and cessation, for each exceedance of an emission or opacity limit, steel production limit, or shredder material limit, and any noncompliance with an operational requirement; f. the records of water application described in this permit; and g. other records described in this permit.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Permanent Recordkeeping: The Permittee shall permanently maintain the following records: a. Design, Construction, and Operation Information. The Permittee shall maintain a file or files of the information on the design, construction, and operation of each emission source, fuel system, stack, structures pertinent to modeling for downwash, and any other information required to conduct PM10 ambient air quality modeling. The file or files shall also include all information required to demonstrate that the equipment identified in this permit is installed and operated as described. If the Permittee makes changes or modifications that do not require amendments to this permit, the file or files shall include a description of that change or modification and all information required to demonstrate that the change or modification did not require a permit amendment.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Permanent Recordkeeping, continued. b. PM10 Emission Compliance and Operational Requirement Demonstration Plans. The Permittee shall maintain a file at the facility which includes this permit and all attachments or items incorporated by reference, and any plans which upon approval by the MPCA or EPA become integral and enforceable parts of this permit.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7007.0800,subp. 5(C) (continued from above)
Recordkeeping: Retain all records at the stationary source for a period of six (6) 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) unless otherwise noted.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y, Minn. R. 7007.0800, subp. 5(C)
The Permittee shall conduct maintenance as necessary to ensure that all equipment is in proper operating condition.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
DETERMINING IF A PROJECT/MODIFICATION IS SUBJECT TO NEW SOURCE REVIEW	hdr

Facility Name: Gerdau Ameristeel US Inc - St Paul Mill

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Quarterly report: due 30 days after end of each calendar quarter starting 04/22/1993. The report shall be submitted to the MPCA and shall include the following information: a record of data, if applicable, used in calculations, and calculations of PM10 emissions if there has been a change in calculation method; a record of each unscheduled startup and shutdown, bypass, and breakdown of process and control equipment, including control equipment monitoring, that causes an increase in PM10 emissions; a summary record of excess PM10 or opacity emissions during performance tests; and records of noncompliance with operational requirements or a statement that no exceedances or noncompliance conditions occurred during the quarter.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y, meets requirements of 40 CFR Section 60.276a(b), 40 CFR 64.9, and Minn. R. 7007.0800, subp. 6(A)(2)
NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR AREA SOURCES Subpart YYYYY	hdr
Chlorinated Plastics, Lead and Free Organic Liquids Requirements	hdr

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Gerdau Ameristeel US Inc - St Paul Mill

Permit Number: 12300055 - 004

Subject Item: **GP 001 Slag Handling Facility**

Associated Items: CE 011 Dust Suppression by Water Spray

FS 012 Slag handling - screening

FS 013 Slag handling - conveying

FS 014 Slag handling - dumping

FS 015 Slag handling - loading to process

FS 016 Slag handling - loadout to storage

FS 017 Slag handling - truck loading

FS 018 Slag handling - dump conveyors 1-3

What to do	Why to do it
OPERATING REQUIREMENTS	hdr
The Permittee shall water the unpaved roads at the IMS slag facility. Watering shall comply with the following conditions: a. The water application rate shall be at least 3 gallons for each 100 square feet every 24 hours. b. A 0.10 inch rainfall during the previous 24 hours shall substitute for one water application. c. Water application is not required when the air temperature is below 35 degrees Fahrenheit, the road is muddy or covered with snow, or on any day that has no traffic on the roads. d. Following any day when water is not applied based on absence of traffic, water shall be applied within 3 hours of recommencement of traffic.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
The Permittee shall apply water, at a rate of at least 2.4 gallons at least every minute, to all material entering the IMS slag facility prior to screening and conveying.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Daily Inspections: The Permittee shall conduct daily inspections of the slag handling equipment and conduct maintenance as necessary to ensure that the slag handling equipment is in proper operating condition.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
RECORDKEEPING REQUIREMENTS	hdr
The Permittee shall retain daily water application records for a minimum of six (6) years following the date on which the information is recorded. The record shall include the following: a. the roads watered, the amount of water applied, the time watered, and the method of application for each application. If water was not applied because of no traffic on the roads, because the roads were muddy or covered with snow, or because there was a 0.1 inch or greater rainfall within the previous 24 hours, it must be noted in the record along with the sources of measurement (i.e. National Weather Service or on-site rain gauge). b. the amount of water applied to all material entering the IMS slag facility prior to screening and conveying, and the method of water application. c. records of watering equipment breakdowns and repairs.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Operating Record: The Permittee shall record and maintain records of the date and time of each daily inspection of the slag handling equipment, and any maintenance performed as a result of the inspection	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Gerdau Ameristeel US Inc - St Paul Mill

Permit Number: 12300055 - 004

Subject Item: **EU 001 Ladle Refining Station**

Associated Items: CE 001 Fabric Filter - Medium Temperature i.e., 180 F<T<250 F

GP 002 Melting/Refining combined limits

SV 001 AAF Baghouse, vent #1

SV 010 AAF Baghouse, Vent #2

SV 011 North-end meltshop roof monitor (louvers)

What to do	Why to do it
EMISSION LIMITS	hdr
Particulate Matter < 10 micron: less than or equal to 0.0052 grains/dry standard cubic foot of exhaust gas from the control device (CE001).	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Particulate Matter < 10 micron: less than or equal to 9.25 lbs/hour from the control device (CE001 = SV001 + SV010)	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity (SV001 and SV010).	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7011.0610, subp.1(A)(2)
Opacity: less than or equal to 6 percent from the north end meltshop roof monitor (SV011)	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
CONTROL EQUIPMENT REQUIREMENTS (CE001)	hdr
The Permittee shall operate and maintain the fabric filter (CE 001) at all times that the associated process equipment (EU001) is in operation. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7007.0800, subp. 2 and 14
Pressure Drop: greater than or equal to 2.5 inches of water column and less than or equal to 8.0 inches of water column across each baghouse compartment during the collection cycle, 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. Once every 24 hours, the Permittee shall record the pressure drop across the baghouse compartments during the collection cycle.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y, 40 CFR Section 64.3, Minn. R. 7017.0200, Minn. R. 7007.0800, subp. 2, 4, 5 and 14
Daily Inspections: Once per operating day, the Permittee shall inspect the control equipment to check for compartment air emissions characteristic of a broken bag. When emissions characteristic of a broken bag are observed, the broken bag will be identified, tied off immediately, and replaced at a later time. The Permittee shall maintain a written record of these inspections.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y, 40 CFR Section 64.3, Minn. R. 7017.0200

Facility Name: Gerdau Ameristeel US Inc - St Paul Mill

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EMISSIONS MONITORING AND TESTING	hdr
Visible Emissions: The Permittee shall check SV001, SV010, and SV011 for any visible emissions once each day during daylight hours. The readings shall be done at the same time as the opacity readings at SV002.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; 40 CFR Section 64.3; Minn. R. 7017.0200
Performance Test: due before end of each year starting 11/06/2007 to measure PM-10 emissions from SV001 and SV010. Annual tests shall not be less than 10 months apart.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7017.2020, subp. 1
RECORDKEEPING AND REPORTING REQUIREMENTS	hdr
Operating Record: The Permittee shall record and maintain records of the following: a. the date, time, and duration that a fabric filter fan is inoperative. b. the date and time that baghouse bags are replaced or tied off. c. the date and time of each daily inspection of the baghouse, and any maintenance performed as a result of the inspection d. once each day, the pressure drop across the baghouse, in inches of water column e. the date and time of visible emission observations of SV001, SV010, and SV011, and whether or not visible emissions were observed Recorded values outside the ranges specified in this permit are considered Deviations as defined by Minn. R. 7007.0100, subp. 8a.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; 40 CFR Section 64.3; Minn. R. 7017.0200

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Gerdau Ameristeel US Inc - St Paul Mill

Permit Number: 12300055 - 004

Subject Item: **EU 002 Electric Arc Furnace**

Associated Items: CE 002 Fabric Filter - Medium Temperature i.e., 180 F<T<250 F

GP 002 Melting/Refining combined limits

SV 002 Amerex Baghouse

What to do	Why to do it
EMISSION LIMITS	hdr
Particulate Matter < 10 micron: less than or equal to 0.0052 grains/dry standard cubic foot of exhaust gas from the control device.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Particulate Matter < 10 micron: less than or equal to 20.27 lbs/hour from the control device (CE 002).	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Opacity: less than or equal to 3 percent opacity from the control device (SV002). This is more stringent than the 6% opacity limit in 40 CFR 63.10686(b)(2), which also applies.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y and 40 CFR Section 60.272a(a)(2)
CONTROL EQUIPMENT REQUIREMENTS (CE002)	hdr
The Permittee shall operate the baghouse (CE 002) in such a manner as to achieve and maintain compliance with the PM10 emission limit.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7007.0800, subp. 2 and 14
Pressure Drop: greater than or equal to 2.5 inches of water column and less than or equal to 8.0 inches of water column across each baghouse compartment during the collection cycle, 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.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; 40 CFR Section 60.274a(b); Minn. R. 7007.0800, subp. 2 and 14
Once every 24 hours, read and record the pressure drop across the baghouse compartments during the collection cycle.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; 40 CFR Section 60.272a(a)(1); 40 CFR Section 64.3
Daily Inspections: Once per operating day, the Permittee shall inspect the control equipment (CE002) to check for compartment air emissions characteristic of a broken bag. When emissions characteristic of a broken bag are observed, the broken bag will be identified, tied off immediately, and replaced at a later time. The Permittee shall maintain a written record of these inspections.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y, 40 CFR pt. 50, and MN State Implementation Plan (SIP)

Facility Name: Gerdau Ameristeel US Inc - St Paul Mill

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EMISSIONS MONITORING AND TESTING	hdr
SV002 Visible Emission Observations: At least once each day while the furnace is operating in the melting and refining period, a Certified Visible Emission Observer shall take visible emission observations at SV002. These observations shall be taken in accordance with Method 9, and, for at least three 6-minute periods, the opacity shall be recorded for any point(s) where visible emissions are observed. Where it is possible to determine that a number of visible emission sites relate only to one incident of the visible emissions, only one set of three 6-minute observations will be required, for the site of highest opacity that directly relates to the cause or location of visible emissions observed during a single incident. Records shall be maintained of all opacity observations.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; 40 CFR Section 60.273a(c); 40 CFR Section 64.3; Minn. R. 7007.0800, subp. 2 and 14
If at any time the opacity of the baghouse emissions (SV002) is determined by the Permittee to be greater than 3% opacity, the Permittee shall correct the cause within two days from the time of the observation. The MPCA may require the Permittee to conduct a performance test for PM10 from the baghouse within 30 days of the observation. If the MPCA determines that the baghouse emissions exceed 3% opacity, the MPCA shall issue a certified letter stating such. The Permittee shall be required to investigate and correct the cause, and may be required to conduct a performance test for PM10 within 30 days of receiving the letter.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Performance Test: due before end of each year starting 11/06/2007 to measure PM-10 emissions from SV002. Annual tests shall not be less than 10 months apart.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7017.2020, subp. 1

Facility Name: Gerdau Ameristeel US Inc - St Paul Mill

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RECORDKEEPING REQUIREMENTS	hdr
Operating Record: The Permittee shall record and maintain records of the following: a. the date, time, and duration that fewer than two (2) fabric filter fans are operating; b. the date and time that baghouse bags are replaced or tied off. c. the date and time of each daily inspection of the baghouse and EAF and associated duct work, and any maintenance performed as a result of the inspection d. once each day, the pressure drop across the baghouse, in inches of water column e. the date, time, and duration of any down time of the electric arc furnace f. the date and time of each opacity reading g. once per shift, the date, time, and baghouse fan motor amps and the DEC damper position.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7007.0800 subp. 5

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Gerdau Ameristeel US Inc - St Paul Mill

Permit Number: 12300055 - 004

Subject Item: **EU 003 Auto Shredding**

Associated Items: CE 010 Wet Scrubber/Cyclone/Z-box

SV 003 Shredder scrubber system stack

What to do	Why to do it
EMISSION & OPERATING LIMITS	hdr
Particulate Matter < 10 micron: less than or equal to 0.033 grains/dry standard cubic foot	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Particulate Matter < 10 micron: less than or equal to 16.97 lbs/hour from the control device (CE 010).	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Opacity: less than or equal to 20 percent opacity	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7011.0715, subp. 1(B)
Operating Hours: less than or equal to 18 hours/day	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Operating Hours: less than or equal to 5200 hours/year using 12-month Rolling Sum	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
CONTROL EQUIPMENT REQUIREMENTS (CE010)	hdr
The Permittee shall operate the control equipment in such a manner as to achieve and maintain compliance with the PM10 emission limit.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y

Facility Name: Gerdau Ameristeel US Inc - St Paul Mill

Permit Number: 12300055 - 004

Daily Inspections: Once per operating day, the Permittee shall inspect the auto shredder (EU003) and control equipment (CE010). The Permittee shall conduct maintenance as necessary to ensure that the auto shredder and control equipment are in proper operating condition.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
EMISSIONS MONITORING AND TESTING	hdr
RECORDKEEPING REQUIREMENTS	hdr

Facility Name: Gerdau Ameristeel US Inc - St Paul Mill

Permit Number: 12300055 - 004

Operating Record: The Permittee shall record and maintain records of the following: a. the number of hours the shredder was operating each day, b. by the 15th of each month, calculate the number of hours the shredder was operating for the previous month and sum the previous twelve months, c. the date and time of each daily inspection of the shredder, and any maintenance performed as a result of the inspection, d. the date, time, and duration of any fires, explosions, or other conditions potentially causing excess emissions at the shredder, and e. the date and time of each visible emission observation, and whether or not visible emissions were observed. Days on which the unit is not operated will be documented. Recorded values outside the ranges specified in this permit are considered Deviations as defined by Minn. R. 7007.0100, subp. 8a.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Gerdau Ameristeel US Inc - St Paul Mill

Permit Number: 12300055 - 004

Subject Item: **EU 004 Reheat Furnace**

Associated Items: SV 004 Reheat Furnace

What to do	Why to do it
EMISSION LIMITS	hdr
Particulate Matter < 10 micron: less than or equal to 0.052 grains/dry standard cubic foot	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7011.0610, subp. 1(A)(2)

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Gerdau Ameristeel US Inc - St Paul Mill

Permit Number: 12300055 - 004

Subject Item: **EU 005 Baghouse Dust Silo**

Associated Items: CE 002 Fabric Filter - Medium Temperature i.e., 180 F<T<250 F

SV 002 Amerex Baghouse

What to do	Why to do it
EMISSION LIMITS	hdr
Particulate Matter < 10 micron: less than or equal to 0.100 grains/dry standard cubic foot Emissions from this unit are collected by CE002, and cannot be isolated from the EU002 emissions. Therefore, the emissions from this unit are included in the limit set at EU002. See Subject Item EU002 for control equipment operation requirements.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Opacity: less than or equal to 10 percent opacity from the control device (CE002). Emissions from this unit are collected by CE002, and cannot be isolated from the EU002 emissions. Therefore, the emissions from this unit are included in the limit set at EU002. See Subject Item EU002 for control equipment operation requirements.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt 52, subp. Y; 40 CFR Section 60.272a(b)

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Gerdau Ameristeel US Inc - St Paul Mill

Permit Number: 12300055 - 004

Subject Item: **EU 006 Railcar Loading**

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

SV 006 Railcar Bin Vent Baghouse

What to do	Why to do it
EMISSION LIMITS	hdr
Particulate Matter < 10 micron: less than or equal to 0.100 grains/dry standard cubic foot . This is equivalent to 0.85 lb/hour at maximum equipment capacity; maximum controlled emissions at maximum capacity are approximately 0.06 lb/hour.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Opacity: less than or equal to 10 percent opacity from the control device (CE005).	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; 40 CFR Section 60.272a(b)
CONTROL EQUIPMENT REQUIREMENTS (CE005)	hdr
The Permittee shall operate and maintain the fabric filter (CE 005) at all times that the associated process equipment (EU006) is in operation. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7007.0800, subp. 2 and 14
Visible Emissions: The Permittee shall check the fabric filter stack (SV006) for any visible emissions once each day of operation during daylight hours. during inclement weather, the Permittee shall read and record the pressure drop across the fabric filter once each day of operation.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7007.0800, subp. 2 and 14
Recordkeeping of Visible Emissions and Pressure Drop. The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified in this permit	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7007.0800, subp. 5

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Gerdau Ameristeel US Inc - St Paul Mill

Permit Number: 12300055 - 004

Subject Item: **EU 009 Additive Silo (north)**

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

SV 008 Additive Bin Vent Baghouse (N)

What to do	Why to do it
EMISSION LIMITS	hdr
Particulate Matter < 10 micron: less than or equal to 0.100 grains/dry standard cubic foot	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Opacity: less than or equal to 20 percent opacity from control device (CE008)	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7011.0715, subp. 1(B)
CONTROL EQUIPMENT REQUIREMENTS (CE008)	hdr
The Permittee shall operate and maintain the fabric filter (CE 008) at all times that the associated process equipment (EU009) is in operation. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7007.0800, subps. 2 and 14
Visible Emissions: The Permittee shall check the fabric filter stack (SV008) for any visible emissions once each day of operation during daylight hours.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7007.0800, subp. 2 and 14
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.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7007.0800, subp. 2 and 14
SHUTDOWN REQUIREMENTS	hdr
Shutdown: due before Initial Startup of EU016. EU 009 shall be shut down before startup of EU016. This does not prohibit the Permittee from conducting pre-startup testing of EU016 prior to the shutdown of EU009. EU017 and EU 010 shall not be operated simultaneously during the pre-startup testing of EU016. The pre-startup testing period shall not last more than 21 days.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Equipment Removal and/or Dismantlement: due 30 days after Shutdown of EU 009. This can include any activity to render EU 009 - Additive Silo (north) permanently inoperable.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Gerdau Ameristeel US Inc - St Paul Mill

Permit Number: 12300055 - 004

Subject Item: **EU 010 Additive Silo (south)**

Associated Items: CE 009 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

SV 009 Additive Bin Vent Baghouse (S)

What to do	Why to do it
EMISSION LIMITS	hdr
Particulate Matter < 10 micron: less than or equal to 0.100 grains/dry standard cubic foot	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Opacity: less than or equal to 20 percent opacity from control device (CE009)	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7011.0715, subp. 1(B)
CONTROL EQUIPMENT REQUIREMENTS (CE009)	hdr
The Permittee shall operate and maintain the fabric filter (CE 009) at all times that the associated process equipment (EU010) is in operation. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7007.0800, subps. 2 and 14
Visible Emissions: The Permittee shall check the fabric filter stack (SV009) for any visible emissions once each day of operation during daylight hours.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7007.0800, subp. 2 and 14
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.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7007.0800, subp. 2 and 14
SHUTDOWN REQUIREMENTS	hdr
Shutdown: due before Initial Startup of EU017. EU010 shall be shut down before initial startup of EU 017. This condition does not prohibit the Permittee from conducting pre-startup testing of EU017 prior to the shutdown of EU010. EU017 and EU 010 shall not be operated simultaneously during the pre-startup testing of EU017. The pre-startup testing period shall not last more than 21 days.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Equipment Removal and/or Dismantlement: due 30 days after Shutdown of EU 010. This can include any activity to render EU 010 - Additive Silo (south) permanently inoperable.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Gerdau Ameristeel US Inc - St Paul Mill

Permit Number: 12300055 - 004

Subject Item: **EU 016 Additive Silo 1**

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

SV 014 Additive Silo 1 Filter

What to do	Why to do it
EMISSION LIMITS	hdr
Particulate Matter < 10 micron: less than 0.100 grains/dry standard cubic foot	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Opacity: less than or equal to 20 percent opacity from the control equipment (CE012).	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7011.0715, subp. 1(B)
STARTUP REQUIREMENTS	hdr
Initial Startup: The Permittee shall not commence operation of Additive Silo 1 (EU016) before EU009 has been shutdown. This condition does not prohibit the Permittee from conducting pre-startup testing of EU016 prior to the shutdown of EU009. EU016 and EU 009 shall not be operated simultaneously during the pre-startup testing of EU016. The pre-startup testing period shall not last more than 21 days.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
CONTROL EQUIPMENT REQUIREMENTS (CE012)	hdr
The Permittee shall operate the control equipment (CE012) in such a manner as to achieve and maintain compliance with the PM10 emission limit. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
The Permittee shall check the fabric filter stack (SV014) for any visible emissions once each day of operation during daylight hours.	Minn.Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; R. 7007.0800, subp. 2 and 14
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.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7007.0800 subp. 2, 5 and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Gerdau Ameristeel US Inc - St Paul Mill

Permit Number: 12300055 - 004

Subject Item: **EU 017 Additive Silo 2**

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

SV 015 Additive Silo 2 Filter

What to do	Why to do it
EMISSION LIMITS	hdr
Particulate Matter < 10 micron: less than 0.100 grains/dry standard cubic foot	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Opacity: less than or equal to 20 percent opacity from control device (CE013).	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7011.0715, subp. 1(B)
STARTUP REQUIREMENTS	hdr
Initial Startup: The Permittee shall not commence operation of Additive Silo 2 (EU017) before EU010 has been shutdown. This condition does not prohibit the Permittee from conducting pre-startup testing of EU017 prior to the shutdown of EU010. EU017 and EU 010 shall not be operated simultaneously during the pre-startup testing of EU017. The pre-startup testing period shall not last more than 21 days.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
CONTROL EQUIPMENT REQUIREMENTS (CE013)	hdr
The Permittee shall operate the control equipment (CE013) in such a manner as to achieve and maintain compliance with the PM10 emission limit.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
The Permittee shall check the fabric filter stack (SV015) for any visible emissions once each day of operation during daylight hours.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y, Minn. R. 7007.0800, subp. 2 and 14
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.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7007.0800 subp. 2, 5 and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Gerdau Ameristeel US Inc - St Paul Mill

Permit Number: 12300055 - 004

Subject Item: **EU 018 Plasma Spray System**

Associated Items: CE 014 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

SV 016 Plasma Spray System Filter

What to do	Why to do it
EMISSION LIMITS	hdr
Particulate Matter < 10 micron: less than 0.100 grains/dry standard cubic foot	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Operating Hours: less than or equal to 4 hours/day	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Operating Hours: less than or equal to 416 hours/year using 12-month Rolling Sum	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
CONTROL EQUIPMENT REQUIREMENTS (CE014)	hdr
The Permittee shall operate the control equipment (CE014) in such a manner as to achieve and maintain compliance with the PM10 emission limit.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
Operating Record. The Permittee shall record and maintain records of the following: a. On a daily basis, the Permittee shall record the date and number of hours of operation of the plasma spray system. Days that the plasma spray system is not in use shall be documented. b. By the 15th of each month, the Permittee shall calcuate the hours of operation for the previous month and calculate the operating hours for the previous twelve months.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y
The Permittee shall check the fabric filter stack (SV015) for any visible emissions once each day of operation during daylight hours.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7007.0800, subp. 2 and 14
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.	Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y; Minn. R. 7007.0800 subp. 2 and 14

Appendix B: Title I Condition: State Implementation Plan (SIP) for PM10 NAAQS; 40 CFR pt. 50; 40 CFR pt. 51; 40 CFR pt. 52, subp. Y

Facility Name: Gerdau Ameristeel U.S. Inc. - St Paul Mill
Permit Number: 12300055-004

Preconstruction Modeling Parameters:
The following emission source parameters were used in the model demonstrating compliance with National Ambient Air Quality Standards for PM_{10}. The Modeling Parameters in Table 1 will apply until completion of the construction project.

Table 1 – **PM_{10} Point Source Modeling Parameters Relied Upon to Demonstrate Compliance with NAAQS**

SV ID No.	Source Description	Modeled Height (feet)	Modeled Diameter (feet)	Modeled Temperature (°F)	Modeled Air Flow (acfm)	Modeled annual PM_{10} (g/s)	Modeled annual PM_{10} (lb/hr)	Modeled 24-hour PM_{10} (g/s)	Modeled 24-hour PM_{10} (lb/hr)
001 + 010	Ladle Refining Station (EU001, CE001)	79	25.7	125	230000	1.1657	9.25	1.1657	9.25
002	Electric Arc Furnace (EU002, CE002)	94	29.4	190	560000	2.5543	20.27	2.5543	20.27
003	Auto Shredder (EU003, CE003)	56	6.9	Ambient	60000	1.2693	10.07	1.6038	12.73
004	Reheat Furnace (EU004)	125	8.0	1000	109000	2.2160	17.59	2.2160	17.59
006	Railcar Loading (EU006, CE005)	81	0.5	Ambient	1000	0.1080	0.86	0.1080	0.86
008	Additive Silo North (EU009, CE008)	64	1.6	Ambient	600	0.0650	0.52	0.0650	0.52
009	Additive Silo South (EU010, CE009)	64	1.6	Ambient	600	0.0650	0.52	0.0650	0.52

Post Modification Modeling Parameters:
The following modeling parameters will be effective after the construction project. These stack and area source parameters were used in the model demonstrating compliance with National Ambient Air Quality Standards for PM_{10}.

Table 2 – **PM_{10} Point Source Modeling Parameters Relied Upon to Demonstrate Compliance with NAAQS**

SV ID No.	Source Description	Modeled Height (feet)	Modeled Diameter (feet)	Modeled Temperature (°F)	Modeled Air Flow (acfm)	Modeled Annual PM_{10} (g/s)	Modeled Annual PM_{10} (lb/hr)	Modeled 24-Hour PM_{10} (g/s)	Modeled 24-Hour PM_{10} (lb/hr)
001 + 010	Ladle Refining Station (EU001, CE001)	79	25.7	125	230000	1.1657	9.25	1.1657	9.25
002	Electric Arc Furnace (EU002, CE002)	94	29.4	190	560000	2.5543	20.27	2.5543	20.27
003	Auto Shredder (EU003, CE003)	56	6.9	Ambient	60000	1.2693	10.07	1.6038	12.73
004	Reheat Furnace (EU004)	125	8.0	1000	109000	2.2160	17.59	2.2160	17.59
006	Railcar Loading (EU006, CE005)	81	0.5	Ambient	1000	0.1080	0.86	0.1080	0.86
014	Additive Silo North (EU009, CE008)	64	1.6	Ambient	600	0.0151	0.12	0.0151	0.12
015	Additive Silo South (EU010, CE009)	64	1.6	Ambient	600	0.0151	0.12	0.0151	0.12
016	Plasma Spray System	12	2.3	Ambient	300	0.0003	0.00	0.0067	0.05