

**AIR EMISSION PERMIT NO. 07900017- 004**  
**Major Amendment**

**Is Issued To**

Le Sueur Inc.

**LE SUEUR INC.**  
1409 Vine Street  
Le Sueur, Le Sueur County, MN 56058

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

This permit amendment supersedes Air Emission Permit No. 07900017-003, and authorizes the Permittee to operate and modify the stationary source at the address listed above unless otherwise noted in Table A. The Permittee must comply with all the conditions of the permit. Any changes or modifications to the stationary source must be performed in compliance with Minn. R. 7007.1150 to 7007.1500. Terms used in the permit are as defined in the state air pollution control rules unless the term is explicitly defined in the permit.

Unless otherwise indicated, all the Minnesota rules cited as the origin of the permit terms are incorporated into the 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/Limits to Avoid NSR

**Operating Permit Issue Date:** 7/15/2008

**Major Amendment Issue Date:** April 28, 2009

**Expiration Date:** 7/15/2013 – Title I Conditions do not expire.

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

for Paul Eger  
Commissioner  
Minnesota Pollution Control Agency

**Permit Applications Table**

Permit Type	Application Date	Permit Action
Total Facility Operating Permit -Reissuance	9/22/2005	003
Major Amendment	2/12/2009	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:**

Le Sueur Incorporated is an aluminum foundry. Emission sources include reverberatory and crucible furnaces used to melt the aluminum; equipment for pouring, casting, and cooling the molten aluminum using die casting, permanent mold, and sand mold technologies; core making machines; equipment for grinding, cleaning, shot-blasting, and finishing the castings; sand handling equipment; and plant heating equipment. Le Sueur Incorporated also has a thermoplastic injection molding operation on site. The thermoplastic injection molding is an insignificant activity.

The facility is a major source under the Part 70 permit program (40 CFR § 70.2). By virtue of federally enforceable operating conditions, the facility is a non major source under the federal Prevention of Significant Deterioration (PSD, 40 CFR § 52.21) program.

## **AMENDMENT DESCRIPTIONS:**

### Permit Action 003:

This permit action was a re-issuance for the total facility operating permit (PER 001) at Le Sueur Incorporated. This permit authorized the Permittee to raise the limit of the total quantity of aluminum that may be melted at the facility from 17,500 tons per year (tpy) to 37,000 tpy. The Permittee is also allowed to replace the ward iron scrubber (CE 010) with a fabric filter (CE 017). After successful installation of CE 017, the limit of the total quantity of aluminum that may be melted at the facility will rise to 40,000 tpy. The Permittee is authorized to add up to five new furnaces (EU 209 to EU 213) to group 1 (GP001) in the future. Currently, Striko Dynarad Furnace no. 14 (EU 172) is the furnace with the maximum potential throughput at Le Sueur Incorporated. Each furnace added to GP001 is allowed to have a maximum potential throughput lower than or equal to EU 172. Also, Le Sueur Incorporated agreed to operate the Pulse Jet Fabric filter (CE 015) at pressure differential range of 0.5 to 6 inches (instead of 2.0 to 4.0 inches).

### Permit Action 004:

This permit action is for a major amendment to change the pressure drop range in CE 004 (Cartridge Dust Collector) from 2-4 to 0.6-6 inches of water column based on the manufacturers recommendation and observed pressure drops. The pressure drop ranges for CE 016 and 017 were also added to the permit. EU 090 (Grinder 7580) was removed from the facility and from the permit. The MPCA received notification of the initial startup of CE 017 (Low Temp Fabric Filter) on 1/15/2009. CE 017 replaces CE 010 (High Efficiency Wet Scrubber) as the control equipment for EU 177 (Jet Blast Wheelabrator); therefore, CE 010 and its requirements were removed from the permit. CE 010 was removed from the facility on 12/29/2008.

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-1**

04/28/09

Facility Name: Le Sueur Inc  
 Permit Number: 07900017 - 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**

<b>What to do</b>	<b>Why to do it</b>
<b>SOURCE-SPECIFIC REQUIREMENTS</b>	hdr
This permit establishes limits on the facility to keep it a minor source under New Source Review. The Permittee cannot make any change at the source that would make the source a major source under New Source Review unless and until a major amendment has been issued. This includes changes that might otherwise qualify as insignificant modifications and minor or moderate amendments.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Permit Appendices: This permit contains appendices as listed in the permit Table of Contents. The Permittee shall comply with all requirements contained in the appendices.	Minn. R. 7007.0800, subp. 2
<b>OPERATIONAL REQUIREMENTS</b>	hdr
The Permittee shall comply with National Primary and Secondary Ambient Air Quality Standards, 40 CFR pt. 50, and the Minnesota Ambient Air Quality Standards, Minn. R. 7009.0010 to 7009.0080. Compliance shall be demonstrated upon written request by the MPCA.	40 CFR pt. 50; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
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
Air Pollution Control Equipment: Operate all pollution control equipment whenever the corresponding process equipment and emission units are operated.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 16(J)
Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment. At a minimum, the O & M plan shall identify all air pollution control equipment and control practices and shall include a preventative maintenance program for the equipment and practices, a description of (the minimum but not necessarily the only) corrective actions to be taken to restore the equipment and practices to proper operation to meet applicable permit conditions, a description of the employee training program for proper operation and maintenance of the control equipment and practices, and the records kept to demonstrate plan implementation.	Minn. R. 7007.0800, subps. 14 and 16(J)
Operation Changes: In any shutdown, breakdown, or deviation the Permittee shall immediately take all practical steps to modify operations to reduce the emission of any regulated air pollutant. The Commissioner may require feasible and practical modifications in the operation to reduce emissions of air pollutants. No emissions units that have an unreasonable shutdown or breakdown frequency of process or control equipment shall be permitted to operate.	Minn. R. 7019.1000, subp. 4
Fugitive Emissions: Do not cause or permit the handling, use, transporting, or storage of any material in a manner which may allow avoidable amounts of particulate matter to become airborne. Comply with all other requirements listed in Minn. R. 7011.0150.	Minn. R. 7011.0150
Noise: The Permittee shall comply with the noise standards set forth in Minn. R. 7030.0010 to 7030.0080 at all times during the operation of any emission units. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. R. 7030.0010 - 7030.0080
Inspections: The Permittee shall comply with the inspection procedures and requirements as found in Minn. R. 7007.0800, subp. 9(A).	Minn. R. 7007.0800, subp. 9(A)
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
<b>PERFORMANCE TESTING</b>	hdr
Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in Tables A, and/or B.	Minn. R. ch. 7017

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-2**

04/28/09

Facility Name: Le Sueur Inc  
 Permit Number: 07900017 - 004

<p>Performance Test Notifications and Submittals:</p> <p>Performance Tests are due as outlined in Table A of the permit. See Table B for additional testing requirements.</p> <p>Performance Test Notification (written): due 30 days before each Performance Test          Performance Test Plan: due 30 days before each Performance Test          Performance Test Pre-test Meeting: due 7 days before each Performance Test          Performance Test Report: due 45 days after each Performance Test          Performance Test Report - Microfiche Copy: due 105 days after each Performance Test</p> <p>The Notification, Test Plan, and Test Report may be submitted in alternative format as allowed by Minn. R. 7017.2018.</p>	<p>Minn. R. 7017.2018;          Minn. R. 7017.2030, subps. 1-4,          Minn. R. 7017.2035, subps. 1-2</p>
<p>Limits set as a result of a performance test (conducted before or after permit issuance) apply until superseded as stated in the MPCA's Notice of Compliance letter granting preliminary approval. Preliminary approval is based on formal review of a subsequent performance test on the same unit as specified by Minn. R. 7017.2025, subp. 3. The limit is final upon issuance of a permit amendment incorporating the change.</p>	<p>Minn. R. 7017.2025, subp. 3</p>
<b>MONITORING REQUIREMENTS</b>	hdr
<p>Monitoring Equipment Calibration: The Permittee shall calibrate all required monitoring equipment at least once every 12 months (any requirements applying to continuous emission monitors are listed separately in this permit).</p>	<p>Minn. R. 7007.0800, subp. 4(D)</p>
<p>Operation of Monitoring Equipment: Unless otherwise noted in Tables A, and/or B, monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown, or during checks of the monitoring systems, such as calibration checks and zero and span adjustments. If monitoring records are required, they should reflect any such periods of process shutdown or checks of the monitoring system.</p>	<p>Minn. R. 7007.0800, subp. 4(D)</p>
<b>RECORDKEEPING</b>	hdr
<p>Recordkeeping: Retain all records at the stationary source, unless otherwise specified within this permit, for a period of five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A).</p>	<p>Minn. R. 7007.0800, subp. 5(C)</p>
<p>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.</p>	<p>Minn. R. 7007.0800, subp. 5(B)</p>
<p>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. These records shall be kept for a period of five years from the date the change was made or until permit reissuance, whichever is longer. The records shall be kept at the stationary source for the current calendar year of operation and may be kept at the stationary source or office of the stationary source for all other years. The records may be maintained in either electronic or paper format.</p>	<p>Minn. R. 7007.1200, subp. 4</p>
<b>REPORTING/SUBMITTALS</b>	hdr
<p>Shutdown Notifications: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. If the owner or operator does not have advance knowledge of the shutdown, notification shall be made to the Commissioner as soon as possible after the shutdown. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 3.</p> <p>At the time of notification, the owner or operator shall inform the Commissioner of the cause of the shutdown and the estimated duration. The owner or operator shall notify the Commissioner when the shutdown is over.</p>	<p>Minn. R. 7019.1000, subp. 3</p>

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-3**

04/28/09

Facility Name: Le Sueur Inc  
 Permit Number: 07900017 - 004

Breakdown Notifications: Notify the Commissioner within 24 hours of a breakdown of more than one hour duration of any control equipment or process equipment if the breakdown causes any increase in the emissions of any regulated air pollutant. The 24-hour time period starts when the breakdown was discovered or reasonably should have been discovered by the owner or operator. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 2.  At the time of notification or as soon as possible thereafter, the owner or operator shall inform the Commissioner of the cause of the breakdown and the estimated duration. The owner or operator shall notify the Commissioner when the breakdown is over.	Minn. R. 7019.1000, subp. 2
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
Notification of Deviations Endangering Human Health or the Environment Report: Within 2 working days of discovery, notify the Commissioner in writing of any deviation from permit conditions which could endanger human health or the environment. Include the following information in this written description: 1. the cause of the deviation; 2. the exact dates of the period of the deviation, if the deviation has been corrected; 3. whether or not the deviation has been corrected; 4. the anticipated time by which the deviation is expected to be corrected, if not yet corrected; and 5. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation.	Minn. R. 7019.1000, subp. 1
Application for Permit Amendment: If a permit amendment is needed, submit an application in accordance with the requirements of Minn. R. 7007.1150 through Minn. R. 7007.1500. Submittal dates vary, depending on the type of amendment needed.	Minn. R. 7007.1150 - 7007.1500
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).	Minn. R. 7007.1400, subp. 1(H)
Emission Inventory Report: due on or before April 1 of each calendar year following permit issuance, to be submitted on a form approved by the Commissioner.	Minn. R. 7019.3000 - 7019.3100
Emission Fees: due 60 days after receipt of an MPCA bill.	Minn. R. 7002.0005 - 7002.0095

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-4**

04/28/09

Facility Name: Le Sueur Inc  
 Permit Number: 07900017 - 004

**Subject Item:** GP 001 Furnaces

**Associated Items:** EU 001 Reverberatory Furnace (2017)  
 EU 002 Reverberatory Furnace (2114)  
 EU 003 Reverberatory Furnace (2115)  
 EU 004 Reverberatory Furnace (2116)  
 EU 005 Reverberatory Furnace (2209)  
 EU 006 Reverberatory Furnace (2224)  
 EU 007 Reverberatory Furnace (6900)  
 EU 008 Wet Bath Furnace (6905)  
 EU 010 Wet Bath Furnace (6940)  
 EU 011 Reverberatory Furnace (6945)  
 EU 012 Wet Bath Furnace (6950)  
 EU 013 Wet Bath Furnace (6955)  
 EU 014 Wet Bath Furnace (6960)  
 EU 015 Reverberatory Dry Hearth Furnace (7010)  
 EU 016 Reverberatory Dry Hearth Furnace (7078)  
 EU 017 Wet Bath Furnace (7500)  
 EU 018 Wet Bath Furnace (7501)  
 EU 019 Reverberatory Furnace (7503)  
 EU 020 Reverberatory Furnace (7504)  
 EU 021 Reverberatory Furnace (7505)  
 EU 023 Wet Bath Furnace (7507)  
 EU 024 Reverberatory Furnace (7511)  
 EU 025 Reverberatory Dry Hearth Furnace (7566)  
 EU 026 Reverberatory Dry Hearth Furnace (7567)  
 EU 027 Reverberatory Dry Hearth Furnace (7586)  
 EU 028 Electric Furnace (6915)  
 EU 029 Electric Furnace (6925)  
 EU 118 Natural Gas Reverberatory Furnace (7587)  
 EU 121 Electric Crucible Furnace (7508)  
 EU 171 Furnace #4 Dynarad Crucible (6930)  
 EU 172 Furnace #14 Striko Dynarad (6454)  
 EU 209 Additional Future Furnace #1  
 EU 210 Additional Future Furnace #2  
 EU 211 Additional Future Furnace #3  
 EU 212 Additional Future Furnace #4  
 EU 213 Additional Future Furnace #5

What to do	Why to do it
Material Usage: less than or equal to 37,000 tons/year using 12-month Rolling Sum of aluminum melted in all furnaces combined (includes internally generated scrap that is remelted).	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000



**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-5**

04/28/09

Facility Name: Le Sueur Inc  
 Permit Number: 07900017 - 004

The melting limit of less than or equal to 37,000 tons/year will no longer apply starting on the 12th month following the installation of a fabric filter (CE 017). See below for the new melting limit after the 12th month following CE 017 installation. The rolling sum of the material usage is the aluminum melted in all furnaces combined (includes internally generated scrap that is re-melted).	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
After the 12th month following the fabric filter (CE 017) installation: Material Usage: less than or equal to 40,000 tons/year using 12-month Rolling Sum	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
PM/PM-10 Precap: If the Permittee replaces any existing Furnaces, modifies the existing Furnaces, or adds up to five new Furnaces, such equipment is subject to all the requirements of GP 001. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable. The Permittee is not required to repeat the calculations described in Minn. R. 7007.1200, subp. 2. A permit amendment is needed regardless of the emissions change if the change will be subject to new applicable requirements or requires revision to the limits or monitoring and recordkeeping in this permit. Changes to existing monitoring, recordkeeping, or reporting requirements require a major amendment.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Monthly Recordkeeping - By the 15th day of each month, the Permittee shall calculate and record a. The total quantity of aluminum melted during the previous month (including internally generated scrap that is remelted). b. The 12-month rolling sum of aluminum melted during the previous 12 months, by summing the 12 previous monthly aluminum melt quantities.	Minn. R. 7007.0800, subp. 4 and subp. 5
Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011. 0735.  This limit applies individually to each unit.	Minn. R. 7011.0610, subp. 1(A)(1)
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.  This limit applies individually to each unit.	Minn. R. 7011.0610, subp. 1(A)(2)
Five new furnaces to be added in the future (EU 209, EU 210, EU 211, EU 212, and EU 213) shall be restricted to have the maximum capacity less than or equal to the capacity of Striko Dynarad Furnace #14 (EU 172).	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000.

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-6**

04/28/09

Facility Name: Le Sueur Inc  
Permit Number: 07900017 - 004

**Subject Item:** GP 002 Pouring/Casting/Cooling

**Associated Items:**

- EU 030 Die Cast Machine (2001)
- EU 031 Die Cast Machine (2006)
- EU 032 Die Cast Machine (2008)
- EU 033 Die Cast Machine (2009)
- EU 034 Die Cast Machine (2010)
- EU 035 Die Cast Machine (2011)
- EU 036 Die Cast Machine (2012)
- EU 037 Die Cast Machine (2174)
- EU 038 Die Cast Machine (2210)
- EU 039 Die Cast Machine (2227)
- EU 040 Die Cast Machine (2263)
- EU 041 Die Cast Machine (2298)
- EU 042 Tilt Machine (6500)
- EU 043 Tilt Machine (6505)
- EU 044 Tilt Machine (6510)
- EU 045 Tilt Machine (6520)
- EU 046 Tilt Machine (6530)
- EU 047 Tilt Machine (6545)
- EU 049 Tilt Machine (6555)
- EU 051 Tilt Machine (6565)
- EU 052 Tilt Machine (6570)
- EU 053 Tilt Machine (6575)
- EU 055 Tilt Machine (6996)
- EU 056 Tilt Machine (7046)
- EU 057 Tilt Machine (7076)
- EU 058 Tilt Machine (7085)
- EU 059 Tilt Machine (7086)
- EU 060 3-Way Machine (6540)
- EU 061 3-Way Machine (7045)
- EU 062 Low Pressure Molding Machine (7018)
- EU 063 Low Pressure Molding Machine (7023)
- EU 064 Low Pressure Molding Machine (7089)
- EU 065 Sand Molding Machine (7549) Casting Line
- EU 066 Sand Molding Machine (7576) Casting Line
- EU 069 Pinlift Drag and Cope #1 Casting Line (7530,7531)
- EU 122 Die Cast Machine (2003)
- EU 123 Die Cast Machine (2004)
- EU 124 Die Cast Machine (2007)
- EU 125 Die Cast Machine (2300)

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-7**

04/28/09

Facility Name: Le Sueur Inc  
 Permit Number: 07900017 - 004

**Associated Items:** EU 126 Die Cast Machine (2307)  
 EU 128 Tilt Machine (6515)  
 EU 129 Tilt Machine (6525)  
 EU 130 Tilt Machine (6535)  
 EU 131 Tilt Machine (6585)  
 EU 133 Tilt Machine (6595)  
 EU 134 Tilt Machine (7048)  
 EU 135 Pouring and Cooling  
 EU 142 Sand Molding Machine (7534) Casting Line  
 EU 145 Sand Squeeze Box Molding Machine (7532) Casting Line  
 EU 175 Tilt Machine (7104)  
 EU 176 Tilt Machine (7109)  
 EU 184 Permanent Mold Machine Hall 3HSX (6491),(replaced EU 132)  
 EU 185 Permanent Mold Machine Hall 3HSX (6492), (replaced EU 048)  
 EU 186 Permanent Mold Machine Hall 3HSX (6493), (replaced EU 054)  
 EU 187 Permanent Mold Machine Hall 3HSX (6494)  
 EU 196 Die Cast Machine (2365)  
 EU 198 Sand Mold Machine Pinlift Casting Line (7697, 7699), (replaced EU 143 and 144)  
 EU 201 Mold Machine 3-Way (4546)  
 EU 202 Mold Machine Hall Machine (6427)  
 EU 203 Mold Machine Hall Machine (6428)  
 EU 204 Mold Machine Hall Machine(6429)  
 EU 208 Low Pressure Molding Machine (6523)

What to do	Why to do it
PM/PM-10 Precap: If the Permittee replaces any existing Pouring/Casting/Cooling equipment that is directly related to the melting limit, adds new equipment, or modifies the existing Pouring/Casting/Cooling equipment, such equipment is subject to the permit metal melting limit listed in GP 001 as well as the requirements of GP 002. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable. The Permittee is not required to repeat the calculations described in Minn. R. 7007.1200, subp. 2. A permit amendment is needed regardless of the emissions change if the change will be subject to new applicable requirements or requires revision to the limits or monitoring and recordkeeping in this permit. Changes to existing monitoring, recordkeeping, or reporting requirements require a major amendment.	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000.
Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011. 0735.  This limit applies individually to each unit.	Minn. R. 7011.0710, subp. 1(A) (units in operation before July 9, 1969) OR Minn. R. 7011.0715, subp. 1(A) (units which were not in operation before July 9, 1969)
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.  This limit applies individually to each unit.	Minn. R. 7011.0710, subp. 1(B) (units in operation before July 9, 1969)
Opacity: less than or equal to 20 percent opacity This limit applies individually to each unit.	Minn. R. 7011.0715, subp. 1(B) (units not in operation before July 9, 1969)

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-8**

04/28/09

Facility Name: Le Sueur Inc  
 Permit Number: 07900017 - 004

**Subject Item:** GP 003 Indirect Heating Equipment

**Associated Items:** EU 113 Plant Heater (6360)  
 EU 117 Air Makeup Heater (8035)  
 EU 153 Natural Gas Air Make Up Heater (7571)  
 EU 154 Natural Gas Air Make Up Heater (8363)  
 EU 155 Natural Gas Air Make Up Heater (8364)  
 EU 156 Natural Gas Air Make Up Heater (2181)  
 EU 157 Natural Gas Air Make Up Heater (2182)  
 EU 158 Natural Gas Air Make Up Heater (2186)  
 EU 159 Natural Gas Air Make Up Heater (2223)  
 EU 160 Natural Gas Air Make Up Heater (7028)  
 EU 190 Heater Air Make-up Gas Unit #1 (7691)  
 EU 191 Heater Air Make-up Gas Unit #2 (7692)  
 EU 192 Heater Air Make-up Gas Unit #3 (7693)  
 EU 193 Heater Air Make-up Unit RUPP #1 (6464)  
 EU 194 Heater Air Make-up Unit RUPP #2 (6465)

What to do	Why to do it
Total Particulate Matter: less than or equal to 0.60 lbs/million Btu heat input This limit applies individually to each unit.  Note: Each of the units listed has potential emissions of 0.007 lb/million Btu heat input, based on equipment design.	Minn. R. 7011.0510, subp. 1 (units in operation prior to January 31, 1977)
Total Particulate Matter: less than or equal to 0.40 lbs/million Btu heat input This limit applies individually to each unit.  Note: Each of the units listed has potential emissions of 0.007 lb/million Btu heat input, based on equipment design.	Minn. R. 7011.0515, subp. 1 (units not in operation prior to January 31, 1977)
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.  This limit applies individually to each unit.	Minn. R. 7011.0510, subp. 2 OR Minn. R. 7011.0515, subp. 2
Fuel type: Natural gas or propane only.	Minn. R. 7005.0100, subp. 35a

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-9**

04/28/09

Facility Name: Le Sueur Inc  
 Permit Number: 07900017 - 004

**Subject Item:** GP 004 Grinding/Cleaning Equipment

**Associated Items:** CE 002 Wet Scrubber - High Efficiency  
 CE 004 Cartridge Dust Collector  
 CE 011 Centrifugal Collector - High Efficiency  
 EU 086 Grinder (2305)  
 EU 087 Downdraft Table (2309)  
 EU 091 Grinder (7585)  
 EU 092 Grinder (8300)  
 EU 093 Grinder (8301)  
 EU 094 Grinder (8303)  
 EU 195 Grinder Double Back Stand #3 (8302)

What to do	Why to do it
PM/PM-10 Precap (part 1 of 3): If the Permittee replaces any existing Grinding/Cleaning equipment, adds new grinding/cleaning equipment, or modifies the existing grinding/cleaning equipment, such equipment is subject to the requirements of GP 004 as well as the metal melting limit of GP 001. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable.	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000.
PM/PM-10 Precap (part 2 of 3): The Permittee shall vent emissions from all applicable grinding/cleaning equipment (other than those that qualify as insignificant under Minn. R. 7007.1300 subp. 2) as follows: 1. All emissions from existing, modified, or new equipment must be vented to control equipment. 2. Changes or modifications to existing emission equipment must be vented to the same control equipment or control equipment in this group that has control efficiency equal to or greater than the previous control equipment. 3. Newly added emission equipment must be vented to control equipment that has control efficiency equal to or greater than the most efficient control equipment in this group.	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000.
PM/PM-10 Precap (part 3 of 3): The Permittee is not required to repeat the calculations described in Minn. R. 7007.1200, subp. 2. A permit amendment is needed regardless of the emissions change if the change will be subject to new applicable requirements or requires revision to the limits or monitoring and recordkeeping in this permit. Changes to existing monitoring, recordkeeping, or reporting requirements require a major amendment.	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000.
Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011. 0735.  This limit applies individually to each unit.	Minn. R. 7011.0715, subp. 1(A)
Opacity: less than or equal to 20 percent opacity This limit applies individually to each unit.	Minn. R. 7011.0715, subp. 1(B)
The Permittee shall maintain and operate the control equipment at all times that any emission unit controlled by the equipment is in operation. The Permittee shall operate and maintain the control equipment in accordance with the Operation and Maintenance (O & M) Plan. (See Subject Items CE002, CE004, and CE011 for specific operating conditions for the control equipment.)	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-10**

04/28/09

Facility Name: Le Sueur Inc  
 Permit Number: 07900017 - 004

**Subject Item:** GP 005 Blasting Equipment

**Associated Items:** CE 013 Cartridge Dust Collector

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

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

EU 082 Goff Shotblast Unit (2013)

EU 095 Tumbleblast (8328)

EU 177 Jet Blast Wheelabrator (8392)

What to do	Why to do it
PM/PM-10 PreCap (part 1 of 3): If the Permittee replaces any existing Blasting equipment, adds new blasting equipment, or modifies the existing blasting equipment, such equipment is subject to the requirements of GP 005 as well as the metal melting limit of GP 001. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable.	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000.
PM/PM-10 Precap (part 2 of 3): The Permittee shall vent emissions from all applicable blasting equipments including existing, modified, or new blasting equipments as follows: 1. All emissions from existing, modified, or new equipment must be vented to control equipment. 2. Changes or modifications to existing emission equipment must be vented to the same control equipment or control equipment in this group that has control efficiency equal to or greater than the previous control equipment. 3. Newly added emission equipment must be vented to control equipment that has control efficiency equal to or greater than the most efficient control equipment in this group.	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000.
PM/PM-10 Precap (part 3 of 3): The Permittee is not required to repeat the calculations described in Minn. R. 7007.1200, subp. 2. A permit amendment is needed regardless of the emissions change if the change will be subject to new applicable requirements or requires revision to the limits or monitoring and recordkeeping in this permit. Changes to existing monitoring, recordkeeping, or reporting requirements require a major amendment.	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000.
Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011. 0735. This limit applies individually to each unit.	Minn. R. 7011.0710, subp. 1(A) (units which were in operation before July 9, 1969) OR Minn. R. 7011.0715, subp. 1(A) (units not in operation before July 9, 1969)
Opacity: less than or equal to 20 percent opacity This limit applies individually to each unit.	Minn. R. 7011.0715, subp. 1(B) (units not in operation before July 9, 1969)
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.  This limit applies individually to each unit.	Minn. R. 7011.0710, subp. 1(B) (units in operation before July 9, 1969)
The Permittee shall maintain and operate the control equipment at all times that any emission unit controlled by the equipment is in operation. The Permittee shall operate and maintain the control equipment 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. (See Subject Items CE 013, CE 016 and CE 017 for specific operating conditions for the control equipment.)	Title I Condition: To avoid major source classification under 40 CFR Section 52.21; 40 CFR Section 64.7(b); Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14; Minn. R. 7017.0200
CONTROL REQUIREMENTS: See Subject Items CE 013, CE 016, and CE 017 for specific control equipment operating requirements.	hdr

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-11**

04/28/09

Facility Name: Le Sueur Inc  
 Permit Number: 07900017 - 004

**Subject Item:** GP 006 Core Machines

**Associated Items:** EU 070 Laempe Core Machine (7663)  
 EU 074 Laempe Core Machine (8015)  
 EU 076 Core Machine (8024)  
 EU 077 Laempe Core Machine (8036)  
 EU 078 Core Machine (8037)  
 EU 079 Core Machine (8044)  
 EU 080 Laempe Core Machine (8045)  
 EU 081 Core Machine (7080)  
 EU 136 Shell Core Machine (8005)  
 EU 139 Shell Core Machine (8008)  
 EU 140 Shell Core Machine (8009)  
 EU 178 Core Machine Cold Box Laempe LB25 (8062)  
 EU 188 Core U-180 Shell Core Machine (8048)  
 EU 189 Core Shalco U-900 Shell Core Machine (8050)

What to do	Why to do it
PM/PM-10 PreCap: If the Permittee replaces any existing Core machines, adds new core machines, or modifies the existing core machines, such equipment is subject to the requirements of GP 006 as well as the metal melting limit of GP 001. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable. The Permittee is not required to repeat the calculations described in Minn. R. 7007.1200, subp. 2. A permit amendment is needed regardless of the emission change if the change will be subject to new applicable requirements or requires revisions to the limits or monitoring and recordkeeping in this permit. Changes to existing monitoring, recordkeeping, or reporting requirements require a major amendment.	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000.
Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011. 0735.  This limit applies individually to each unit. All units exhaust inside the building except only the Laempe Core Machines which exhausts outside of the building.	Minn. R. 7011.0710, subp. 1(A) (units which were in operation before July 9, 1969) OR Minn. R. 7011.0715, subp. 1(A) (units not in operation before July 9, 1969)
Opacity: less than or equal to 20 percent opacity This limit applies individually to each unit.	Minn. R. 7011.0715, subp. 1(B) (units not in operation before July 9, 1969)
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.  This limit applies individually to each unit.	Minn. R. 7011.0710, subp. 1(B) (units in operation before July 9, 1969)

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-12**

04/28/09

Facility Name: Le Sueur Inc  
 Permit Number: 07900017 - 004

**Subject Item:** GP 007 Knockout/shakeout

**Associated Items:** EU 109 Pinlift Shaker (7541)  
 EU 110 Core Knockout Machine (8311)  
 EU 111 Core Knockout Machine (8366)  
 EU 112 Core Knockout Machine (8367)  
 EU 147 Shaker (7540)  
 EU 150 Core Knockout (8312)  
 EU 151 Core Knockout (8313)  
 EU 152 Core Knockout (8370)  
 EU 169 Shake out (7569)  
 EU 205 Core Knockout Machine (6440)  
 EU 206 Core Knockout Machine (7036)  
 EU 207 Core Knockout Machine (7103)

What to do	Why to do it
PM/PM-10 PreCap: If the Permittee replaces any existing knockout/shakeout, adds new knockout/shakeout, or modifies the existing knockout/shakeout, such equipment is subject to the requirements of GP 007 as well as the metal melting limit of GP 001. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable. The Permittee is not required to repeat the calculations described in Minn. R. 7007.1200, subp. 2. A permit amendment is needed regardless of the emission change if the change will be subject to new applicable requirements or requires revisions to the limits or monitoring and recordkeeping in this permit. Changes to existing monitoring, recordkeeping, or reporting requirements require a major amendment.	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000.
Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011. 0735.  This limit applies individually to each unit. Each unit exhausts inside the building.	Minn. R. 7011.0710, subp. 1(A) (units which were in operation before July 9, 1969) OR Minn. R. 7011.0715, subp. 1(A) (units not in operation before July 9, 1969)
Opacity: less than or equal to 20 percent opacity This limit applies individually to each unit (all are exhausted inside the building).	Minn. R. 7011.0715, subp. 1(B) (units not in operation before July 9, 1969)
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.  This limit applies individually to each unit (all are exhausted inside the building).	Minn. R. 7011.0710, subp. 1(B) (units in operation before July 9, 1969)



**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-13**

04/28/09

Facility Name: Le Sueur Inc  
Permit Number: 07900017 - 004

**Subject Item:** GP 008 Sand silos - Controlled

**Associated Items:** CE 015 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

EU 105 Sand Silo-Coldbox Core Sand (7664)

EU 106 Sand Silo-Mold Sand (7665)

What to do	Why to do it
Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011. 0735.  This limit applies individually to each unit.	Minn. R. 7011.0710, subp. 1(A) (units which were in operation before July 9, 1969)
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.  This limit applies individually to each unit.	Minn. R. 7011.0710, subp. 1(B) (units in operation before July 9, 1969)
The Permittee shall maintain and operate the control equipment at all times that any emission unit controlled by the equipment is in operation. The Permittee shall operate and maintain the control equipment in accordance with the Operation and Maintenance (O & M) Plan. (See Subject Items CE015 for specific operating conditions for the control equipment.)	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-14**

04/28/09

Facility Name: Le Sueur Inc  
Permit Number: 07900017 - 004

**Subject Item:** GP 009 Sand silos and handling - Uncontrolled or Credit not taken

**Associated Items:** EU 104 Sand Transport North Building (7091)  
EU 146 Sand Transfer-Core Room Coldbox Sand and Mold Sand  
EU 174 Sand Silo Reclamation (8056)  
EU 200 Sand Silo North of North Building (8073)

What to do	Why to do it
Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. this limit applies individually to each unit.	Minn. R. 7011.0715, subp. 1(A) (units not in operation before July 9, 1969)
Opacity: less than or equal to 20 percent opacity. This limit applies individually to each unit.	Minn. R. 7011.0715, subp. 1(B)

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-15**

04/28/09

Facility Name: Le Sueur Inc  
Permit Number: 07900017 - 004

**Subject Item:** EU 107 Mullor (7543)

**Associated Items:** CE 012 Wet Scrubber - High Efficiency  
SV 079 Stack 138 Mullor (7543)

What to do	Why to do it
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011. 0735.  At maximum capacity, the controlled potential to emit is less than the equivalent emission limit.	Minn. R. 7011.0715, subp. 1(A)
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
Total Particulate Matter: greater than or equal to 90 percent control efficiency . See Subject Item CE012 for specific control equipment requirements.	Minn. R. 7011.0715, subp. 1(A) (control required to meet limit)

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-16**

04/28/09

Facility Name: Le Sueur Inc  
Permit Number: 07900017 - 004

**Subject Item:** EU 108 Mullor Barrel Screen (7544)

**Associated Items:** SV 085 Stack 145 Mullor Barrel Screen (7544)

What to do	Why to do it
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011. 0735.	Minn. R. 7011.0710, subp. 1(A)
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0710, subp. 1(B)

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-17**

04/28/09

Facility Name: Le Sueur Inc  
 Permit Number: 07900017 - 004

**Subject Item:** CE 002 Wet Scrubber - High Efficiency

**Associated Items:** EU 086 Grinder (2305)  
 EU 087 Downdraft Table (2309)  
 EU 195 Grinder Double Back Stand #3 (8302)  
 GP 004 Grinding/Cleaning Equipment

What to do	Why to do it
EMISSION AND OPERATING LIMITS	hdr
If the Permittee replaces any existing wet scrubber, adds new wet scrubber, or modifies the wet scrubber listed in GP 004, such equipment is subject to all of the requirements of GP 004. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall maintain and operate the control equipment at all times that any emission unit controlled by the equipment (including but not limited to the associated items specifically listed above) is in operation. The Permittee shall operate and maintain the control equipment in accordance with the Operation and Maintenance (O & M) Plan.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14
The Permittee shall operate and maintain the control equipment and capture system such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 72 percent	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain the control equipment and capture system such that it achieves an overall control efficiency for Particulate Matter < 10 micron: greater than or equal to 72 percent	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Pressure Drop: greater than or equal to 6 inches of water column and less than or equal to 9 inches of water column, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop once every 24 hours when in operation.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
MONITORING AND RECORDKEEPING	hdr
Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading and whether or not the recorded pressure drop and recorded was within the ranges specified in this permit.	Minn. R. 7007.0800, subp. 4, 5 and 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. 4, 5 and 14
Corrective Actions: The Permittee shall follow the O & M Plan for the scrubber and initiate corrective action as soon as possible (within 24 hours) if any of the following occur: - the recorded pressure drop is outside the required operating range; or - the scrubber or any of its components are found during the inspections to need repair. The Permittee shall keep a record of the type and date of any corrective action taken.	Minn. R. 7007.0800, subp. 4, 5, and 14
Initial Hood Certification and Evaluation: The control device hood shall conform to the requirements listed in Minn. R. 7011.0070, subp. 1, and the Permittee shall certify this as specified in Minn. R. 7011.0072, subps. 2 and 3. The Permittee shall maintain a copy of the evaluation and certification on site.	Minn. R. 7007.0800, subps. 4, 5, and 14
Annual Hood Evaluation: The Permittee shall measure and record at least once every 12 months the fan rotation speed, fan power draw, or face velocity of each hood, or other comparable air flow indication method as required by Minn. R. 7011.0072, subp. 4. The Permittee shall maintain a copy of the annual evaluation on site.	Minn. R. 7007.0800, subps. 4, 5, and 14

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-18**

04/28/09

Facility Name: Le Sueur Inc  
 Permit Number: 07900017 - 004

**Subject Item:** CE 004 Cartridge Dust Collector

**Associated Items:** EU 091 Grinder (7585)

EU 092 Grinder (8300)

EU 093 Grinder (8301)

GP 004 Grinding/Cleaning Equipment

What to do	Why to do it
EMISSION AND OPERATING LIMITS	hdr
If the Permittee replaces any existing cartridge dust collector, adds new cartridge dust collector, or modifies cartridge dust collector listed in GP 004, such equipment is subject to all of the requirements of GP 004. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall maintain and operate the control equipment at all times that any emission unit controlled by the equipment (including but not limited to the associated items specifically listed above) is in operation. The Permittee shall operate and maintain the control equipment in accordance with the Operation and Maintenance (O & M) Plan.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14
The Permittee shall operate and maintain the control equipment and collection system such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 79.2 percent	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain the control equipment and collection system such that it achieves an overall control efficiency for Particulate Matter < 10 micron: greater than or equal to 79.2 percent	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Pressure Drop: greater than or equal to 0.6 inches of water column and less than or equal to 6 inches of water column, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop once every 24 hours when in operation.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
MONITORING AND RECORDKEEPING	hdr
Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading and whether or not the recorded pressure drop was within the range specified in this permit.	Minn. R. 7007.0800, subp. 4, 5 and 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. 4, 5 and 14
Corrective Actions: The Permittee shall follow the O & M Plan for the filter and initiate corrective action as soon as possible (within 24 hours) if any of the following occur: - the recorded pressure drop is outside the required operating range; or - the filter or any of its components are found during the inspections to need repair. The Permittee shall keep a record of the type and date of any corrective action taken.	Minn. R. 7007.0800, subp. 4, 5, and 14
Initial Hood Certification and Evaluation: The control device hood shall conform to the requirements listed in Minn. R. 7011.0070, subp. 1, and the Permittee shall certify this as specified in Minn. R. 7011.0072, subps. 2 and 3. The Permittee shall maintain a copy of the evaluation and certification on site.	Minn. R. 7007.0800, subps. 4, 5, and 14
Annual Hood Evaluation: The Permittee shall measure and record at least once every 12 months the fan rotation speed, fan power draw, or face velocity of each hood, or other comparable air flow indication method as required by Minn. R. 7011.0072, subp. 4. The Permittee shall maintain a copy of the annual evaluation on site.	Minn. R. 7007.0800, subps. 4, 5, and 14

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-19**

04/28/09

Facility Name: Le Sueur Inc

Permit Number: 07900017 - 004

**Subject Item:** CE 011 Centrifugal Collector - High Efficiency**Associated Items:** EU 094 Grinder (8303)

GP 004 Grinding/Cleaning Equipment

What to do	Why to do it
EMISSION AND OPERATING LIMITS	hdr
If the Permittee replaces any existing centrifugal collector, adds new centrifugal collector, or modifies centrifugal collector listed in GP 004, such equipment is subject to all of the requirements of GP 004. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall maintain and operate the control equipment at all times that any emission unit controlled by the equipment (including but not limited to the associated items specifically listed above) is in operation. The Permittee shall operate and maintain the control equipment in accordance with the Operation and Maintenance (O & M) Plan.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14
The Permittee shall operate and maintain the control equipment and collection system such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 68 percent	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain the control equipment and collection system such that it achieves an overall control efficiency for Particulate Matter < 10 micron: greater than or equal to 68 percent	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Pressure Drop: greater than or equal to 2 inches of water column and less than or equal to 4 inches of water column, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop once every 24 hours when in operation.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
MONITORING AND RECORDKEEPING	hdr
Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading and whether or not the recorded pressure drop was within the range specified in this permit.	Minn. R. 7007.0800, subp. 4, 5 and 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. 4, 5 and 14
Corrective Actions: The Permittee shall follow the O & M Plan for the control equipment and initiate corrective action as soon as possible (within 24 hours) if any of the following occur: - the recorded pressure drop is outside the required operating range; or - the equipment or any of its components are found during the inspections to need repair. The Permittee shall keep a record of the type and date of any corrective action taken.	Minn. R. 7007.0800, subp. 4, 5, and 14
Initial Hood Certification and Evaluation: The control device hood shall conform to the requirements listed in Minn. R. 7011.0070, subp. 1, and the Permittee shall certify this as specified in Minn. R. 7011.0072, subps. 2 and 3. The Permittee shall maintain a copy of the evaluation and certification on site.	Minn. R. 7007.0800, subps. 4, 5, and 14
Annual Hood Evaluation: The Permittee shall measure and record at least once every 12 months the fan rotation speed, fan power draw, or face velocity of each hood, or other comparable air flow indication method as required by Minn. R. 7011.0072, subp. 4. The Permittee shall maintain a copy of the annual evaluation on site.	Minn. R. 7007.0800, subps. 4, 5, and 14

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-20**

04/28/09

Facility Name: Le Sueur Inc  
 Permit Number: 07900017 - 004

**Subject Item:** CE 012 Wet Scrubber - High Efficiency

**Associated Items:** EU 107 Mullor (7543)

What to do	Why to do it
EMISSION AND OPERATING LIMITS	hdr
The Permittee shall maintain and operate the control equipment at all times that any emission unit controlled by the equipment (including but not limited to the associated items specifically listed above) is in operation. The Permittee shall operate and maintain the control equipment in accordance with the Operation and Maintenance (O & M) Plan.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14
The Permittee shall operate and maintain the control equipment and capture system such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 90 percent	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain the control equipment and capture system such that it achieves an overall control efficiency for Particulate Matter < 10 micron: greater than or equal to 90 percent	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Water flow rate: greater than or equal to 4 gallons/minute , 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 Permittee shall record the water flow rate drop once every 24 hours when in operation.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Pressure Drop: greater than or equal to 7 inches of water column and less than or equal to 9 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop once every 24 hours when in operation.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
MONITORING AND RECORDKEEPING	hdr
Recordkeeping of Pressure Drop and Water Flow Rate. The Permittee shall record the time and date of each pressure drop reading and water flow rate reading and whether or not the recorded pressure drop and recorded water flow rate were within the ranges specified in this permit.	Minn. R. 7007.0800, subp. 4, 5 and 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. 4, 5 and 14
Corrective Actions: The Permittee shall follow the O & M Plan for the scrubber and initiate corrective action as soon as possible (within 24 hours) if any of the following occur: - the recorded pressure drop is outside the required operating range; or - the recorded water flow rate is outside the required operating range; or - the scrubber or any of its components are found during the inspections to need repair. The Permittee shall keep a record of the type and date of any corrective action taken .	Minn. R. 7007.0800, subp. 4, 5, and 14



**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-21**

04/28/09

Facility Name: Le Sueur Inc  
 Permit Number: 07900017 - 004

**Subject Item:** CE 013 Cartridge Dust Collector

**Associated Items:** EU 082 Goff Shotblast Unit (2013)  
 GP 005 Blasting Equipment

What to do	Why to do it
EMISSION AND OPERATING LIMITS	hdr
The Permittee shall maintain and operate the control equipment at all times that any emission unit controlled by the equipment (including but not limited to the associated items specifically listed above) is in operation. The Permittee shall operate and maintain the control equipment in accordance with the Operation and Maintenance (O & M) Plan.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 99 percent	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000;
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Particulate Matter < 10 micron: greater than or equal to 99 percent	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000;
Pressure Drop: greater than or equal to 1 inches of water column and less than or equal to 3 inches of water column, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop once every 24 hours when in operation.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
MONITORING AND RECORDKEEPING	hdr
Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading and whether or not the recorded pressure drop was within the range specified in this permit.	Minn. R. 7007.0800, subp. 4, 5 and 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. 4, 5 and 14
Corrective Actions: The Permittee shall follow the O & M Plan for the filter and initiate corrective action as soon as possible (within 24 hours) if any of the following occur: - the recorded pressure drop is outside the required operating range; or - the filter or any of its components are found during the inspections to need repair. The Permittee shall keep a record of the type and date of any corrective action taken.	Minn. R. 7007.0800, subp. 4, 5, and 14

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-22**

04/28/09

Facility Name: Le Sueur Inc  
 Permit Number: 07900017 - 004

**Subject Item:** CE 015 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

**Associated Items:** EU 105 Sand Silo-Coldbox Core Sand (7664)

EU 106 Sand Silo-Mold Sand (7665)

GP 008 Sand silos - Controlled

What to do	Why to do it
EMISSION AND OPERATING LIMITS	hdr
The Permittee shall maintain and operate the control equipment at all times that any emission unit controlled by the equipment (including but not limited to the associated items specifically listed above) is in operation. The Permittee shall operate and maintain the control equipment in accordance with the Operation and Maintenance (O & M) Plan.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14
The Permittee shall operate and maintain the control equipment and collection system such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 99 percent	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain the control equipment and collection system such that it achieves an overall control efficiency for Particulate Matter < 10 micron: greater than or equal to 99 percent	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 6 inches of water column, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop when silo filling is in operation.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
MONITORING AND RECORDKEEPING	hdr
Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading and whether or not the recorded pressure drop was within the range specified in this permit.	Minn. R. 7007.0800, subp. 4, 5 and 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. 4, 5 and 14
Corrective Actions: The Permittee shall follow the O & M Plan for the control equipment and initiate corrective action as soon as possible (within 24 hours) if any of the following occur: - the recorded pressure drop is outside the required operating range; or - the equipment or any of its components are found during the inspections to need repair. The Permittee shall keep a record of the type and date of any corrective action taken.	Minn. R. 7007.0800, subp. 4, 5, and 14

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-23**

04/28/09

Facility Name: Le Sueur Inc  
 Permit Number: 07900017 - 004

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

**Associated Items:** EU 095 Tumbleblast (8328)

GP 005 Blasting Equipment

What to do	Why to do it
The Permittee shall maintain and operate the fabric filter (CE 016) at all times that any emission unit controlled by the equipment (EU 095) is in operation. The Permittee shall operate and maintain the control equipment 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. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: To avoid major source classification under 40 CFR Sections 52.21 and 64.7(b); Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14; Minn. R. 7017.0200
The Permittee shall operate and maintain the control equipment and collection system such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 99 percent	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain the control equipment and collection system such that it achieves an overall control efficiency for Particulate Matter < 10 micron: greater than or equal to 99 percent	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Pressure Drop: greater than or equal to 0.8 inches of water column and less than or equal to 2 inches of water column, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop once every 24 hours when the tumbleblast is in operation.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
MONITORING AND RECORDKEEPING	hdr
Daily Inspections: The Permittee shall do the following, once every 24 hours, when the tumbleblast is in operation: 1). Inspect the fabric filter stack (SV 114) for any visible emissions during daylight hours, except during inclement weather. 2). During inclement weather, read and record the pressure drop across the fabric filter.	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14; 40 CFR Section 64.3; Minn. R. 7017.0200
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. Recorded values outside the range specified in this permit are considered Deviations as defined by Minn. R. 7007.0100, subp. 8a.	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14; 40 CFR Section 64.3; Minn. R. 7017.0200; Minn. R. 7007.0800, subp. 4, 5 and 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.	40 CFR Section 64.3; Minn. R. 7017.0200; Minn. R. 7007.0800, subp. 4, 5 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; or - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	40 CFR Section 64.7(d); Minn. R. 7017.0200; Minn. R. 7007.0800, subp. 4, 5 and 14
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation.	40 CFR Section 64.7(b); Minn. R. 7017.0200
The Permittee shall calibrate the pressure gauge at least once every calendar year and shall maintain a written record of any action resulting from the calibration.	40 CFR Section 64.3; Minn. R. 7017.0200
Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing pressure drop range, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change.	40 CFR Section 64.7(e); Minn. R. 7017.0200

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-24**

04/28/09

Facility Name: Le Sueur Inc  
Permit Number: 07900017 - 004

As required by 40 CFR Section 64.9(a)(2), for the Semi-Annual Deviations Report listed in Table B of this permit and/or the Notification of Deviations Endangering Human Health and the Environment listed earlier in Table A of this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents.	40 CFR Section 64.9(a)(2); Minn. R. 7017.0200
The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.	40 CFR Section 64.9(b); Minn. R. 7017.0200

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-25**

04/28/09

Facility Name: Le Sueur Inc  
 Permit Number: 07900017 - 004

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

**Associated Items:** EU 177 Jet Blast Wheelabrator (8392)

GP 005 Blasting Equipment

What to do	Why to do it
EMISSION AND OPERATING LIMITS	hdr
The Permittee shall maintain and operate the control equipment (CE 017) at all times that any emission unit controlled by the equipment (including but not limited to the associated items specifically listed above) is in operation. The Permittee shall operate and maintain the control equipment 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. The Permittee shall document periods of non-operation of the control equipment.	Title I Condition: To avoid major source classification under 40 CFR Sections 52.21 and 64.7(b); Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2 and 14; Minn. R. 7017.0200
The Permittee shall operate and maintain the control equipment and collection system such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 99 percent	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain the control equipment and collection system such that it achieves an overall control efficiency for Particulate Matter < 10 micron: greater than or equal to 99 percent	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Pressure Drop: greater than or equal to 0.6 inches of water column and less than 6 inches of water column, unless a new range is set pursuant to Minn. R. 7017.0205, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop when the Jet Blast is in operation.	Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
MONITORING AND RECORDKEEPING	hdr
Daily Inspections: The Permittee shall do the following, once every 24 hours, when the jet blast wheelabrator is in operation: 1). Inspect the fabric filter stack (SV 026) for any visible emissions during daylight hours, except during inclement weather. 2). During inclement weather, read and record the pressure drop across the fabric filter.	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14; 40 CFR Section 64.3; Minn. R. 7017.0200
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. Recorded values outside the range specified in this permit are considered Deviations as defined by Minn. R. 7007.0100, subp. 8a.	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14; 40 CFR Section 64.3; Minn. R. 7017.0200; Minn. R. 7007.0800, subp. 4, 5 and 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.	40 CFR Section 64.3; Minn. R. 7017.0200; Minn. R. 7007.0800, subp. 4, 5 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; or - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	40 CFR Section 64.7(d); Minn. R. 7017.0200; Minn. R. 7007.0800, subp. 4, 5 and 14
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation.	40 CFR Section 64.7(b); Minn. R. 7017.0200
The Permittee shall calibrate the pressure gauge at least once every calendar year and shall maintain a written record of any action resulting from the calibration.	40 CFR Section 64.3; Minn. R. 7017.0200
Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing pressure drop range, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change.	40 CFR Section 64.7(e); Minn. R. 7017.0200

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-26**

04/28/09

Facility Name: Le Sueur Inc  
Permit Number: 07900017 - 004

As required by 40 CFR Section 64.9(a)(2), for the Semi-Annual Deviations Report listed in Table B of this permit and/or the Notification of Deviations Endangering Human Health and the Environment listed earlier in Table A of this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents.	40 CFR Section 64.9(a)(2); Minn. R. 7017.0200
The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.	40 CFR Section 64.9(b); Minn. R. 7017.0200

## TABLE B: SUBMITTALS

B-1 04/28/09

Facility Name: Le Sueur Inc  
Permit Number: 07900017 - 004

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

- accumulated insignificant activities,
- installation of control equipment,
- replacement of an emissions unit, and
- changes that contravene a permit term.

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

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

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

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

Send any application for a permit or permit amendment to:

AQ Permit Technical Advisor  
Industrial Division  
Minnesota Pollution Control Agency  
520 Lafayette Road North  
St. Paul, Minnesota 55155-4194

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

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

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

TABLE B: ONE TIME SUBMITTALS OR NOTIFICATIONS

Facility Name: Le Sueur Inc  
Permit Number: 07900017 - 004

What to send	When to send	Portion of Facility Affected
Application for Permit Reissuance	due 180 days before expiration of Existing Permit	Total Facility



**TABLE B: RECURRENT SUBMITTALS****B-3** 04/28/09

Facility Name: Le Sueur Inc  
Permit Number: 07900017 - 004

What to send	When to send	Portion of Facility Affected
Semiannual Deviations Report	due 30 days after end of each calendar half-year following Permit Issuance. The first semiannual report submitted by the Permittee shall cover the calendar half-year in which the permit is issued. The first report of each calendar year covers January 1 - June 30. The second report of each calendar year covers July 1 - December 31. If no deviations have occurred, the Permittee shall submit the report stating no deviations.	Total Facility
Compliance Certification	due 31 days after end of each calendar year following Permit Issuance (for the previous calendar year). The Permittee shall submit this on a form approved by the Commissioner, both to the Commissioner and to the US EPA regional office in Chicago. This report covers all deviations experienced during the calendar year.	Total Facility

Facility Name: Le Sueur Inc  
Permit Number: 07900017-004

<b>Minn. R. 7007.1300, subpart</b>	<b>Rule Description of the Activity</b>	<b>Applicable Requirement</b>
3(A)	Fuel use: space heaters fueled by, kerosene, natural gas, or propane. <ul style="list-style-type: none"> <li>Facility has natural gas/propane fired space heaters. These heaters are not connected to piping or ducting to distribute the heat.</li> </ul>	Minn. R. 7011.0510/0515
3(H)	Miscellaneous: <p>4. brazing, soldering or welding equipment;</p> <ul style="list-style-type: none"> <li>Welding machines</li> </ul>	Minn. R. 7011.0710/0715
3(I)	Individual emissions units at a stationary source, each of which have a potential to emit the following pollutants in amounts less than: <p>1. 4,000 lbs/year of carbon monoxide; and</p> <p>2. 2,000 lbs/year each of nitrogen oxide, sulfur dioxide, particulate matter, particulate matter less than ten microns, volatile organic compounds (including hazardous air pollutant-containing VOC), and ozone.</p> <ul style="list-style-type: none"> <li>Four rooftop HVAC units, each 0.45 MMBtu/hour, each has a PTE less than the above thresholds (EU161, EU162, EU163, EU164)</li> <li>Make-up air heater, 2.0 MMBtu/hr, PTE is less than above thresholds (EU165)</li> <li>Three fuel fired aging/stress relief ovens, one is 1.0 MMBtu/hr, the others are 0.5 MMBtu/hr each. Each has PTE less than the above thresholds (EU166, EU167, EU168)</li> <li>Three electric aging/stress relief ovens, each has PTE less than the above thresholds (EU114, EU115, EU116)</li> <li>Four individual units used for knockout/shakeout of molds and/or cores, each has a PTE less than the above thresholds (EU109, EU110, EU111, EU112)</li> <li>A new central vacuum system</li> <li>Crusher Sand Reclamation (EU 173, Facility ID 8054) has potential emissions less than 2,000 lbs/year for PM/PM-10</li> <li>Thermoplastic injection molding operation. Potential emissions from each machine are less than 2,000 lbs/yr of VOC and less than 2,000 lbs/yr of PM/PM-10.</li> </ul>	<p>Minn. R. 7011.0510/0515</p> <p>Minn. R. 7011.0510/0515</p> <p>Minn. R. 7011.0610</p> <p>Minn. R. 7011.0710/0715</p> <p>Minn. R. 7011.0710/0715</p> <p>Minn. R. 7011.0710/0715</p> <p>Minn. R. 7011.0710/0715</p> <p>Minn. R. 7011.0710/0715</p>

<p><b>Minn. R. 7007.1300, subpart</b></p>	<p align="center"><b>Rule Description of the Activity</b></p> <ul style="list-style-type: none"> <li>Plastic pad printing. Potential VOC emissions are less than 2,000 lbs/yr with actual emissions are below all of the listed thresholds and actual use is less than 100 gallons/year.</li> </ul>	<p align="center"><b>Applicable Requirement</b></p> <p>Minn. R. 7011.0710/0715</p>
<p>4</p>	<p>A. Potential emissions of 5.7 pounds per hour of carbon monoxide or actual emissions of two tons per year of carbon monoxide;</p> <p>B. Potential emissions of 2.28 pounds per hour or actual emissions of one ton per year for particulate matter, particulate matter less than ten microns, nitrogen oxide, sulfur dioxide, and VOCs;</p> <p>C. (2) Combined HAP actual emissions of one ton per year unless the emissions unit emits one or more of the following HAPs: carbon tetrachloride; 1,2-dibromo-3-chloropropane; ethylene dibromide; hexachlorobenzene; polycyclic organic matter; antimony compounds; arsenic compounds, including inorganic arsine; cadmium compounds; chromium compounds; lead compounds; manganese compounds; mercury compounds; nickel compounds; selenium compounds; 2,3,7,8-tetrachlorodibenzo-p-dioxin; or di-benzofuran. If the emission unit emits one or more of the HAPs listed in this sub-item, the emissions unit is not an insignificant activity under this sub-item.</p>	
<p><b>Minn. R. 7008.4110, subpart</b></p> <p>2</p>	<p align="center"><b>Rule Description of the Activity</b></p> <p>Emissions from equipment venting PM or PM10 inside a building, for example: buffing, polishing, carving, cutting, drilling, machining, routing, sanding, sawing, surface grinding, or turning equipment, must be:</p> <p>A. Filtered through an air cleaning system; and</p> <p>B. Vented inside of the building 100 percent of the time.</p> <ul style="list-style-type: none"> <li>Six grinders (EU 098, EU 100, 8816, 8817, 8828, 8829, 8936 and 8858) and one cutoff saw (EU 097, Facility ID 8814) vent PM/PM10 emissions through a baghouse (CE 009), which is exhausted inside the building 100% of the time.</li> </ul>	<p align="center"><b>Applicable Requirement</b></p> <p>Minn. R. 7011.0710/0715</p>

**TECHNICAL SUPPORT DOCUMENT**  
**For**  
**AIR EMISSION PERMIT NO. 07900017-004**

This technical support document (TSD) is intended for all parties interested in the permit and to meet the requirements that have been set forth by the federal and state regulations (40 CFR § 70.7(a)(5) and Minn. R. 7007.0850, subp. 1). The purpose of this document is to provide the legal and factual justification for each applicable requirement or policy decision considered in the determination to issue the permit.

**1. General Information**

**1.1 Applicant and Stationary Source Location:**

**Table 1. Applicant and Source Address**

<b>Applicant/Address</b>	<b>Stationary Source/Address (SIC Code: 3365)</b>
1409 Vine Street P O Box 149 Le Sueur, MN 56058-0149	1409 Vine Street Le Sueur Le Sueur County
Contact: Mike Horton Phone: 507-665-6204, ext. 342	

**1.2 Facility Description**

Le Sueur Incorporated (Le Sueur) is an aluminum foundry. Emission sources include reverberatory and crucible furnaces used to melt the aluminum; equipment for pouring, casting, and cooling the molten aluminum using die casting, permanent mold, and sand mold technologies; core making machines; equipment for grinding, cleaning, shot-blasting, and finishing the castings; sand handling equipment; and plant heating equipment. Le Sueur also has a thermoplastic injection molding operation on site, which is an insignificant activity under Minn. R. 7007.1300, subp. 3(I).

**1.3 Description of the Activities Allowed by this Permit Action**

This permit action is for a major amendment to change the pressure drop range in CE 004 (Cartridge Dust Collector) from 2-4 to 0.6-6 inches of water column based on the manufacturers recommendation and observed pressure drops. The pressure drop ranges for CE 016 and 017 were also added to the permit. EU 090 (Grinder 7580) was removed from the facility and from the permit. The MPCA received notification of the initial startup of CE 017 (Low Temp Fabric Filter) on 1/15/2009. CE 017 replaced CE 010 (High Efficiency Wet Scrubber) as the control equipment for EU 177 (Jet Blast Wheelabrator); therefore, CE 010 and its requirements were removed from the permit. CE 010 was removed from the facility on 12/29/2008.

Several requirements and citations were also updated according to current MPCA policy.

**1.4. Facility Emissions:**

There is no increase to PTE from this amendment. Do to the replacement of CE 010 by CE 017 the facility now has an aluminum melt limit of 40,000 tons per year.

**Table 2. Total Facility Potential to Emit Summary (tpy)**

	PM	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	VOC	Lead	Single HAP	All HAPs
Total Facility Limited Potential Emissions	240.1	207.8	18.3	145.3	76.9	101.1	0.03	12.16	37.96
Total Facility Actual Emissions (2007)	70.01	65.33	1.49	15.24	12.44	22.13	0.00	HAPs not reported in emission inventory	

**Table 3. Facility Classification**

Classification	Major/Affected Source	Synthetic Minor	Minor
PSD		PM, PM <sub>10</sub>	CO, SO <sub>2</sub> , NO <sub>x</sub> , VOC
Part 70 Permit Program	HAPs, PM <sub>10</sub> , VOC, NO <sub>x</sub>	CO	SO <sub>2</sub>
Part 63 NESHAP	HAPs		

## 2. Regulatory and/or Statutory Basis

No rule applicability has been changed by this amendment.

### New Source Review

The facility has taken limits to be a non-major source under New Source Review regulations. No changes are authorized by this permit.

### Part 70 Permit Program

The facility is a major source under the Part 70 permit program.

### New Source Performance Standards (NSPS)

No NSPS apply to this facility. Additional details of this determination are available in the technical support document for permit 07900017-003.

### National Emission Standards for Hazardous Air Pollutants (NESHAP)

The Permittee has stated that no major source NESHAP's, or area source NESHAP's apply to the facility. Additional details of this determination are available in the technical support document for permit 07900017-003.

### Compliance Assurance Monitoring (CAM)

CAM was addressed at the reissuance, and additional details of this determination are available in the technical support document for permit 07900017-003.

### Environmental Review & AERA

No increase in emissions is allowed by this amendment; therefore, no environmental review, Environmental Assessment Worksheet (EAW,) or Air Emissions Risk Analysis (AERA) was required.

## Minnesota State Rules

Portions of the facility are subject to the following Minnesota Standards of Performance:

- Minn. R. 7011.0510 Standards of Performance for Existing Indirect Heating Equipment
- Minn. R. 7011.0515 Standards of Performance for New Indirect Heating Equipment
- Minn. R. 7011.0610 Standards of Performance for Fossil-Fuel-Burning Direct Heating Equipment
- Minn. R. 7011.0710 Standards of Performance for Pre-1969 Industrial Process Equipment
- Minn. R. 7011.0715 Standards of Performance for Post-1969 Industrial Process Equipment

### **3. Technical Information**

#### **3.1 Periodic Monitoring**

In accordance with the Clean Air Act, it is the responsibility of the owner or operator of a facility to have sufficient knowledge of the facility to certify that the facility is in compliance with all applicable requirements.

In evaluating the monitoring included in the permit, the MPCA considers the following:

- The likelihood of violating the applicable requirements;
- Whether add-on controls are necessary to meet the emission limits;
- The variability of emissions over time;
- The type of monitoring, process, maintenance, or control equipment data already available for the emission unit;
- The technical and economic feasibility of possible periodic monitoring methods; and
- The kind of monitoring found on similar units elsewhere.

The table below summarizes the periodic monitoring requirements for those emission units for which the monitoring required by the applicable requirement is nonexistent or inadequate.

**Table 5. Periodic Monitoring**

<b>Level*</b>	<b>Requirement</b>	<b>Additional Monitoring</b>	<b>Discussion</b>
CE 004	Pressure drop range: 0.6" – 6" water column Title I Condition	Periodic inspections, recordkeeping of pressure drop and visible emissions.	The pressure drop was changed to meet the manufacturers recommended range.
CE 016	Pressure drop range: 0.8" – 2" water column Title I Condition	Daily and periodic inspections, recordkeeping of pressure drop and visible emissions.	The pressure drop range was established.
CE 017	Pressure drop range: 0.6" – 6" water column Title I Condition	Daily and periodic inspections, recordkeeping of pressure drop and visible emissions.	The pressure drop ranged was established.

\*Where the requirement appears in the permit (e.g., EU, SV, GP, etc.).

#### **3.2 Insignificant Activities**

Le Sueur Inc. has several operations which are classified as insignificant activities. These are listed in Appendix I to the permit.

### **3.3 Permit Organization**

In general, the permit meets the MPCA Delta Guidance for ordering and grouping of requirements.

### **3.5 Comments Received**

Public Notice Period: 3/12/09 – 4/10/09

EPA 45-day Review Period: 3/12/09 – 4/27/09

Comments were not received from the public during the public notice period.

### **4. Conclusion**

Based on the information provided by Le Sueur Inc., the MPCA has reasonable assurance that the proposed operation of the emission facility, as described in the Air Emission Permit No. 07900017-004, and this TSD, will not cause or contribute to a violation of applicable federal regulations and Minnesota Rules.

Staff Members on Permit Team:      Chris Buntjer (permit writer/engineer)  
   Brent Rohne (enforcement)  
   Marc Severin (stack testing)  
   Toni Volkmeier (peer reviewer)

AQ File No. 170; DQ 2435

Attachments:            1. CD-01 Forms