AIR EMISSION PERMIT NO. 07900017- 002

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 are as described in the following permit application(s):

Permit Type	Application Date
Total Facility Operating Permit	08/21/1995
Major Amendment	04/27/2001

This permit authorizes the Permittee to operate and construct the stationary source at the address listed above unless otherwise noted in Table A. The Permittee must comply with all the conditions of the permit. Any changes or modifications to the stationary source must be performed in compliance with Minn. R. 7007.1150 to 7007.1500. Terms used in the permit are as defined in the state air pollution control rules unless the term is explicitly defined in the permit.

Permit Type:	Federal; Part 70	Major Amendment
Issue Date:	03/20/2001	February 12, 2002
Expiration:	03/20/2006	03/20/2006

All Title I Conditions do not expire.

JSC:lao

Ann M. Foss
Major Facilities Section Manager
Majors and Remediation Division

for Karen A. Studders
Commissioner
Minnesota Pollution Control Agency

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NOTICE TO THE PERMITTEE:

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

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

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

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

PERMIT SHIELD:

Subject to the limitations in Minn. R. 7007.1800, compliance with the conditions of this permit shall be deemed compliance with the specific provision of the applicable requirement identified in the permit as the basis of each condition.

Subject to the limitations of Minn. R. 7007.1800 and 7017.0100, subp. 2, notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements.

FACILITY DESCRIPTION:

Le Sueur Inc. 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, shotblasting, and finishing the castings; sand handling equipment; and plant heating equipment. Le Sueur Inc. also has a thermoplastic injection molding operation on site, which is an insignificant activity under Minn. R. 7007.1300, subps. 4(B) and 4(C)(2).

PERMIT AMENDMENT DESCRIPTION:

This permit authorizes the Permittee to install and operate "Pep Set Machine" and it's pollution control equipment (fabric filter), allow for revision of several pressure drop ranges for the pollution control equipment listed in the permit, add a fabric filter for the sand silos, and also to revise the total quantity of aluminum that may be melted in a year. There is currently a limit of 15,000 tons per year of aluminum that may be melted at the facility. **The Permittee proposes the limit to be raised to 17,500 tons per year due to the inclusion of aluminum remelt and increase in production.**

TABLE A: LIMITS AND OTHER REQUIREMENTS

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

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

Subject Item: **Total Facility**

What to do	Why to do it
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
Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment.	Minn. R. 7007.0800, subp. 14 and Minn. R. 7007.0800, subp. 16(J)
Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in Tables A, B, and/or C.	Minn. R. ch. 7017
Limits set as a result of a performance test (conducted before or after permit issuance) apply until superseded as specified by Minn. R. 7017.2025 following formal review of a subsequent performance test on the same unit.	Minn. R. 7017.2025
Monitoring Equipment: Install or make needed repairs to monitoring equipment within 60 days of issuance of the permit if monitoring equipment is not installed and operational on the date the permit is issued.	Minn. R. 7007.0800, subp. 4(D)
Monitoring Equipment Calibration: Annually calibrate all required monitoring equipment (any requirements applying to continuous emission monitors are listed separately in this permit).	Minn. R. 7007.0800, subp. 4(D)
Operation of Monitoring Equipment: Unless otherwise noted in Tables A, B, and/or C, monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown, or during checks of the monitoring systems, such as calibration checks and zero and span adjustments. If monitoring records are required, they should reflect any such periods of process shutdown or checks of the monitoring system.	Minn. R. 7007.0800, subp. 4(D)
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
Shutdown Notifications: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. If the owner or operator does not have advance knowledge of the shutdown, notification shall be made to the Commissioner as soon as possible after the shutdown. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 3. At the time of notification, the owner or operator shall inform the Commissioner of the cause of the shutdown and the estimated duration. The owner or operator shall notify the Commissioner when the shutdown is over.	Minn. R. 7019.1000, subp. 3
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

TABLE A: LIMITS AND OTHER REQUIREMENTS

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

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
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
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 through Minn. R. 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)
Recordkeeping: Maintain records describing any insignificant modifications (as required by Minn. R. 7007. 1250, subp. 3) or changes contravening permit terms (as required by Minn. R. 7007.1350 subp. 2), including records of the emissions resulting from those changes.	Minn. R. 7007. 0800, subp. 5(B)
Record keeping: Retain all records at the stationary source for a period of five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A).	Minn. R. 7007.0800, subp. 5(C)
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
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
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)
Emission Inventory Report: due 91 days after end of each calendar year following permit issuance (April 1). To be submitted on a form approved by the Commissioner.	Minn. R. 7019.3000 through Minn. R. 7019.3010
Emission Fees: due 60 days after receipt of an MPCA bill.	Minn. R. 7002.0005 through Minn. R. 7002.0095

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

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 Reverberatory Wet Bath Furnace (6905)
EU 009 Reverberatory Wet Bath Furnace (6935)
EU 010 Reverberatory Wet Bath Furnace (6940)
EU 011 Reverberatory Furnace (6945)
EU 012 Reverberatory Wet Bath Furnace (6950)
EU 013 Reverberatory Wet Bath Furnace (6955)
EU 014 Reverberatory Wet Bath Furnace (6960)
EU 015 Reverberatory Dry Hearth Furnace (7010)
EU 016 Reverberatory Dry Hearth Furnace (7078)
EU 017 Reverberatory Wet Bath Furnace (7500)
EU 018 Reverberatory Wet Bath Furnace (7501)
EU 019 Reverberatory Furnace (7503)
EU 020 Reverberatory Furnace (7504)
EU 021 Reverberatory Furnace (7505)
EU 022 Crucible Furnace (7506)
EU 023 Reverberatory 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 119 Natural Gas Zinc Crucible Furnace (6910)
EU 121 Electric Crucible Furnace (7508)

What to do	Why to do it
Material Usage: less than or equal to 17,500 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
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

TABLE A: LIMITS AND OTHER REQUIREMENTS

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

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. This limit applies individually to each unit. The equivalent limits and potential emissions at maximum capacity are as follows: Unit Limit (lb/hr) PTE (lb/hr) EU001 23.1 6.5 EU002 19.0 4.3 EU003 17.5 1.7 EU004 21.6 3.9 EU005 16.4 6.5 EU006 26.7 6.5 EU007 17.3 1.7 EU008 13.6 1.7 EU009 13.7 2.2 EU010 10.2 4.3 EU011 17.3 1.7 EU012 13.6 1.7	Minn. R. 7011.0610, subp. 1(A)(1)
Unit Limit (lb/hr) PTE (lb/hr) EU013 13.9 2.2 EU014 11.7 2.8 EU015 13.7 4.3 EU016 10.0 4.3 EU017 18.3 2.6 EU018 13.6 1.7 EU019 16.0 1.7 EU020 20.8 1.7 EU021 22.3 1.7 EU022 22.3 0.6 EU023 17.6 3.3 EU024 20.8 4.3 EU025 21.8 4.3 EU026 21.1 4.3 EU027 16.0 4.3 EU028 16.9 0.5 EU029 16.9 0.5 EU118, EU119, and EU121 exhaust inside the building	Minn. R. 7011.0610, subp. 1(A)(1) (continued from above)
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)

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

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 048 Tilt Machine (6550)
EU 049 Tilt Machine (6555)
EU 050 Tilt Machine (6560)
EU 051 Tilt Machine (6565)
EU 052 Tilt Machine (6570)
EU 053 Tilt Machine (6575)
EU 054 Tilt Machine (6580)
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 Molding Machine (7549)
EU 066 Molding Machine (7576)
EU 068 Pinlift Cope #1 (7530)
EU 069 Pinlift Drag #1 (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)
EU 126 Die Cast Machine (2307)
EU 128 Tilt Machine (6515)

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

Associated Items: EU 129 Tilt Machine (6525)
EU 130 Tilt Machine (6535)
EU 131 Tilt Machine (6585)
EU 132 Tilt Machine (6590)
EU 133 Tilt Machine (6595)
EU 134 Tilt Machine (7048)
EU 135 Pouring and Cooling
EU 142 Molding Machine (7534)
EU 143 Pinlift Molding Machine Drag (7535)
EU 144 Pinlift Molding Machine Cope (7536)
EU 145 Squeeze Box Molding Machine (7532)

<table>
<tr><th>What to do</th><th>Why to do it</th></tr>
<tr><td>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.

This limit applies individually to each unit.

The equivalent limits and potential emissions at maximum capacity are as follows:

Unit Limit (lb/hr) PTE (lb/hr)
EU030 14.0 1.7
EU031 22.4 0.7
EU032 22.4 1.4
EU033 10.1 1.6
EU034 12.8 2.1
EU035 12.8 2.1
EU036 7.6 1.6
EU037 10.1 0.7
EU038 22.4 1.4
EU039 22.4 1.0
EU040 14.0 1.9
EU041 22.4 0.9
EU042 17.3 0.5</td><td>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)</td></tr>
<tr><td>Unit Limit (lb/hr) PTE (lb/hr)
EU043 12.0 0.5
EU044 12.9 0.9
EU045 16.9 0.5
EU046 9.6 1.9
EU047 12.9 0.5
EU048 12.9 0.9
EU049 12.9 0.9
EU050 13.5 0.5
EU051 24.1 1.9
EU052 24.1 1.9
EU053 24.1 0.5
EU054 13.5 0.5
EU055 16.9 0.5
EU056 9.6 0.5
EU057 24.1 0.5
EU058 9.6 0.5
EU059 9.6 0.5
EU060 12.9 0.5</td><td>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)</td></tr>
<tr><td>Unit Limit (lb/hr) PTE (lb/hr)
EU061 9.5 0.5
EU062 13.4 2.1
EU063 13.4 2.1
EU064 13.4 2.1
EU065 16.2 5.1
EU066 8.6 5.1
EU068 16.0 1.9
EU069 16.0 1.9

The rest of the units are exhausted inside the building.</td><td>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)
(continued from above)</td></tr>
</table>

TABLE A: LIMITS AND OTHER REQUIREMENTS

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

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

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

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)

What to do	Why to do it
Total Particulate Matter: less than or equal to 0.6 lbs/million Btu heat input This limit applies individually to each unit. 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 0.4 lbs/million Btu heat input This limit applies individually to each unit. 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

TABLE A: LIMITS AND OTHER REQUIREMENTS

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

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

Associated Items: CE 002 Wet Scrubber - High Efficiency

CE 004 Cartridge Dust Collector

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

CE 011 Centrifugal Collector - High Efficiency

EU 084 Grinder (2192)

EU 085 Grinder (2196)

EU 086 Grinder (2305)

EU 087 Downdraft Table (2309)

EU 088 CNC Mill (7035)

EU 089 CNC Mill (7081)

EU 090 Grinder (7580)

EU 091 Grinder (7585)

EU 092 Grinder (8300)

EU 093 Grinder (8301)

EU 094 Grinder (8303)

EU 098 Grinder (8816)

EU 099 Grinder (8818)

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. This limit applies individually to each unit. The equivalent limits and controlled potential emissions at maximum capacity are as follows: Unit Limit (lb/hr) PTE (lb/hr) EU084 9.4 0.2 EU085 9.4 0.04 EU086 9.4 0.4 EU087 9.4 0.4 EU088 12.7 1.0 EU089 12.7 1.0 EU090 5.1 0.3 EU091 5.1 0.3 EU092 5.1 0.3 EU093 5.1 0.3 EU094 0.7 0.4 EU098 0.6 0.3 EU099 0.6 0.3	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, CE009, 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

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

Subject Item: **GP 005 Blasting Equipment**

Associated Items: CE 010 Wet Scrubber - High Efficiency

CE 013 Cartridge Dust Collector

EU 082 Shotblast Unit (2013)

EU 083 Vapor Blaster (2124)

EU 095 Shotblast (8328)

EU 096 BCP (8372)

EU 149 Sand Blast Booth (8325)

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. This limit applies individually to each unit. The equivalent limits and controlled potential emissions at maximum capacity are as follows: Unit Limit (lb/hr) PTE (lb/hr) EU082 7.2 0.01 EU083 1.0 0.02 EU095 9.5 0.22 EU096 9.5 0.22 EU149 9.5 0.06	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. (See Subject Items CE010 and CE013 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

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

Subject Item: **GP 006 Core Machines**

Associated Items: CE 002 Wet Scrubber - High Efficiency
CE 005 Gas Scrubber (General, Not Classified)
CE 007 Packed-Gas Adsorption Column
CE 008 Fabric Filter - Low Temperature, i.e., T<180 Degrees F
CE 014 Fabric Filter - Low Temperature, i.e., T<180 Degrees F
EU 070 Laempe Core Machine (7663)
EU 071 CB Core Machine (8003)
EU 072 CB Core Machine (8011)
EU 074 Laempe Core Machine (8015)
EU 075 Core Machine (8023)
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 137 Shell Core Machine (8006)
EU 138 Shell Core Machine (8007)
EU 139 Shell Core Machine (8008)
EU 140 Shell Core Machine (8009)
EU 141 Shell Core Machine (8021)
EU 170 Pep Set Core Machine

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. This limit applies individually to each unit. The equivalent limits and uncontrolled potential emissions at maximum capacity are as follows: Unit Limit (lb/hr) PTE (lb/hr) EU070 4.9 0.91 EU071 11.4 0.12 EU072 11.4 0.12 EU074 4.9 0.91 EU075 17.3 0.16 EU076 24.1 0.16 EU077 4.9 0.91 EU078 11.7 0.80 EU079 9.6 0.87 EU080 4.9 0.91 EU081 9.6 0.87 There remaining units are exhausted 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.	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)

Facility Name: LeSueur Inc

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The operation of the control equipment is not necessary in order for the process to meet applicable emission limits. However, the Permittee wishes to take credit for its operation for the purposes of reporting actual emissions for emission inventory. Therefore, in order for the emissions to be considered controlled for the purposes of the emission inventory, the control equipment must comply witht the requirements of this permit. (See Subject Items CE005, CE007, and CE008 for specific operating conditions for the control equipment.)	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)

TABLE A: LIMITS AND OTHER REQUIREMENTS

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

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

Associated Items: EU 147 Shaker (7540)

EU 150 Core Knockout (8312)

EU 151 Core Knockout (8313)

EU 152 Core Knockout (8370)

EU 169 Shake out

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. 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

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

Subject Item: **GP 008 Sand silos**

Associated Items: CE 003 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

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

EU 104 Sand Silo (7091)

EU 105 Sand Silo (7664)

EU 106 Sand Silo (7665)

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. This limit applies individually to each unit. The equivalent limits and uncontrolled potential emissions at maximum capacity are as follows: Unit Limit (lb/hr) PTE (lb/hr) EU104 30.6 0.05 EU105 30.6 0.05 EU106 30.6 0.05	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)
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 CE003 and CE006 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

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

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

Associated Items: CE 012 Wet Scrubber - High Efficiency

SV 079 Stack 90

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 equivalent emission limit is approximately 34.2 lb/hour. The controlled potential to emit is 25.2 lb/hour.	Minn. R. 7011.0715, subp. 1(A)
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)
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)

TABLE A: LIMITS AND OTHER REQUIREMENTS

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

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

Associated Items: SV 085 Stack 96

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)
Performance Test: due 180 days after 03/20/2001 to measure total particulate matter and opacity.	Minn. R. 7017.2020, subp. 1
Performance Test Notifications and Submittals: Performance Tests are due as outlined in Tables A and B of the permit. See Table B for additional testing requirements. Performance Test Notification (written): due 30 days before each Performance Test Performance Test Plan: due 30 days before each Performance Test Performance Test Pre-test Meeting: due 7 days before each Performance Test Performance Test Report: due 45 days after each Performance Test Performance Test Report - Microfiche Copy: due 105 days after each Performance Test	Minn. R. 7017.2030, subp. 1-4 and Minn. R. 7017.2035, subp. 1-2

TABLE A: LIMITS AND OTHER REQUIREMENTS

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

Subject Item: EU 146 Sand Transfer

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. Equipment exhausts inside the building.	Minn. R. 7011.0715, subp. 1(A)
Opacity: less than or equal to 20 percent opacity Equipment exhausts inside the building.	Minn. R. 7011.0715, subp. 1(B)

TABLE A: LIMITS AND OTHER REQUIREMENTS

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

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

Associated Items: EU 084 Grinder (2192)

EU 085 Grinder (2196)

EU 086 Grinder (2305)

EU 087 Downdraft Table (2309)

GP 004 Grinding/Cleaning Equipment

GP 006 Core Machines

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 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 take 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
Hood Certification and Evaluation: The control device hood must conform to the requirements listed in Minn. R. 7011.0070, subp. 1, and the Permittee shall certify this as specified in Minn. R. 7011.0070, subp. 3. The Permittee shall maintain a copy of the certification on site, as well as an annual record of fan rotation speed, fan power draw, or face velocity of each hood, or other comparable air flow indication method.	Minn. R. 7007.0800, subp. 4, 5 and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

Subject Item: **CE 003 Fabric Filter - Low Temperature, i.e., T<180 Degrees F**

Associated Items: EU 104 Sand Silo (7091)

GP 008 Sand silos

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 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 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 take 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

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

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

Associated Items: EU 090 Grinder (7580)

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
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 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 filter and take 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
Hood Certification and Evaluation: The control device hood must conform to the requirements listed in Minn. R. 7011.0070, subp. 1, and the Permittee shall certify this as specified in Minn. R. 7011.0070, subp. 3. The Permittee shall maintain a copy of the certification on site, as well as an annual record of fan rotation speed, fan power draw, or face velocity of each hood, or other comparable air flow indication method.	Minn. R. 7007.0800, subp. 4, 5, and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

Subject Item: **CE 005 Gas Scrubber (General, Not Classified)**

Associated Items: EU 070 Laempe Core Machine (7663)

EU 071 CB Core Machine (8003)

EU 072 CB Core Machine (8011)

EU 074 Laempe Core Machine (8015)

EU 077 Laempe Core Machine (8036)

GP 006 Core Machines

What to do	Why to do it
EMISSION AND OPERATING LIMITS	hdr
The operation of this piece of control equipment is not necessary in order for the process to meet applicable emission limits. However, the Permittee wishes to take credit for its operation for the purposes of reporting actual emissions for emission inventory. Therefore, in order for the VOC emissions to be considered controlled for the purposes of the emission inventory, the scrubber must comply witht the requirements of this permit.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)
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.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)
The Permittee shall operate and maintain the control equipment and capture system such that it achieves an overall control efficiency for Volatile Organic Compounds: greater than or equal to 56 percent	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)
Water flow rate: greater than or equal to 21 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.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)
Pressure Drop: greater than or equal to 3 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.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)
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. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)
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. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)
Corrective Actions: The Permittee shall follow the O & M Plan for the scrubber and take 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. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)
Hood Certification and Evaluation: The control device hood must conform to the requirements listed in Minn. R. 7011.0070, subp. 1, and the Permittee shall certify this as specified in Minn. R. 7011.0070, subp. 3. The Permittee shall maintain a copy of the certification on site, as well as an annual record of fan rotation speed, fan power draw, or face velocity of each hood, or other comparable air flow indication method.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)

TABLE A: LIMITS AND OTHER REQUIREMENTS

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

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

Associated Items: GP 008 Sand silos

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 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 take 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

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

Subject Item: **CE 007 Packed-Gas Adsorption Column**

Associated Items: EU 080 Laempe Core Machine (8045)

GP 006 Core Machines

What to do	Why to do it
EMISSION AND OPERATING LIMITS	hdr
The operation of this piece of control equipment is not necessary in order for the process to meet applicable emission limits. However, the Permittee wishes to take credit for its operation for the purposes of reporting actual emissions for emission inventory. Therefore, in order for the VOC emissions to be considered controlled for the purposes of the emission inventory, the scrubber must comply witht the requirements of this permit.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)
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.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)
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 56 percent	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)
Water flow rate: greater than or equal to 21 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.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)
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.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)
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. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)
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. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)
Corrective Actions: The Permittee shall follow the O & M Plan for the scrubber and take 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. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)
Hood Certification and Evaluation: The control device hood must conform to the requirements listed in Minn. R. 7011.0070, subp. 1, and the Permittee shall certify this as specified in Minn. R. 7011.0070, subp. 3. The Permittee shall maintain a copy of the certification on site, as well as an annual record of fan rotation speed, fan power draw, or face velocity of each hood, or other comparable air flow indication method.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)

TABLE A: LIMITS AND OTHER REQUIREMENTS

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

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

Associated Items: EU 080 Laempe Core Machine (8045)

GP 006 Core Machines

What to do	Why to do it
EMISSION AND OPERATING LIMITS	hdr
The operation of this piece of control equipment is not necessary in order for the process to meet applicable emission limits. However, the Permittee wishes to take credit for its operation for the purposes of reporting actual emissions for emission inventory. Therefore, in order for the VOC emissions to be considered controlled for the purposes of the emission inventory, the scrubber must comply witht the requirements of this permit.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)
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.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)
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	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)
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	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 1.5 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.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)
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. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)
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. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)
Corrective Actions: The Permittee shall follow the O & M Plan for the control equipment and take 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. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020(F)

TABLE A: LIMITS AND OTHER REQUIREMENTS

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

Subject Item: **CE 009 Fabric Filter - Low Temperature, i.e., T<180 Degrees F**

Associated Items: EU 097 Cutoff Saw (8814)

EU 098 Grinder (8816)

EU 099 Grinder (8818)

EU 100 Grinder (8828)

GP 004 Grinding/Cleaning 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 and collection 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 collection 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 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 take 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
Hood Certification and Evaluation: The control device hood must conform to the requirements listed in Minn. R. 7011.0070, subp. 1, and the Permittee shall certify this as specified in Minn. R. 7011.0070, subp. 3. The Permittee shall maintain a copy of the certification on site, as well as an annual record of fan rotation speed, fan power draw, or face velocity of each hood, or other comparable air flow indication method.	Minn. R. 7007.0800, subp. 4, 5, and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

Subject Item: **CE 010 Wet Scrubber - High Efficiency**

Associated Items: EU 095 Shotblast (8328)

EU 096 BCP (8372)

EU 149 Sand Blast Booth (8325)

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 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
Water flow rate: greater than or equal to 21 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 5 inches of water column and less than or equal to 7 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 take 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
Hood Certification and Evaluation: The control device hood must conform to the requirements listed in Minn. R. 7011.0070, subp. 1, and the Permittee shall certify this as specified in Minn. R. 7011.0070, subp. 3. The Permittee shall maintain a copy of the certification on site, as well as an annual record of fan rotation speed, fan power draw, or face velocity of each hood, or other comparable air flow indication method.	Minn. R. 7007.0800, subp. 4, 5 and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

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
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 take 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
Hood Certification and Evaluation: The control device hood must conform to the requirements listed in Minn. R. 7011.0070, subp. 1, and the Permittee shall certify this as specified in Minn. R. 7011.0070, subp. 3. The Permittee shall maintain a copy of the certification on site, as well as an annual record of fan rotation speed, fan power draw, or face velocity of each hood, or other comparable air flow indication method.	Minn. R. 7007.0800, subp. 4, 5, and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

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 take 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

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

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

Associated Items: EU 082 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: Limit taken to avoid classification as a major source 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: Limit taken to avoid classification as a major source 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 take 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

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

Subject Item: **CE 014 Fabric Filter - Low Temperature, i.e., T<180 Degrees F**

Associated Items: EU 170 Pep Set Core Machine

GP 006 Core Machines

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 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 take 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

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

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

Associated Items: EU 105 Sand Silo (7664)

EU 106 Sand Silo (7665)

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 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 when in 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 take 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 B: SUBMITTALS

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

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 any application for a permit or permit amendment to:

Permit Technical Advisor
Permit Section
Air Quality Division
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

Also, where required by an applicable rule or permit condition, send to the Permit Technical Advisor notices of:
- accumulated insignificant activities,
- installation of control equipment,
- replacement of an emissions unit, and
- changes that contravene a permit term.

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

Supervisor
Compliance Determination Unit
Air Quality Division
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

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 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

TABLE B: ONE TIME SUBMITTALS OR NOTIFICATIONS

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

What to send	When to send	Portion of Facility Affected
Application for Permit Reissuance	due 180 days before expiration of Existing Permit	Total Facility
Computer Dispersion Modeling Information	due 1,096 days after 03/20/2001. Submit modeling data for sources of particulate matter smaller than 10 microns (PM10) as specified in MPCA modeling guidance for Modeling Information Requests. This modeling information is for data collection purposes only, no modeling analysis is required at this time. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Total Facility
Testing Frequency Plan	due 60 days after Performance Test for total particulate matter emissions. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on one-year (12 month), 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	EU108

TABLE B: RECURRENT SUBMITTALS

02/12/02

Facility Name: LeSueur Inc

Permit Number: 07900017 - 002

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 occured, the Permittee shall submit the report stating no deviations.	Total Facility
Compliance Certification	due 30 days after end of each calendar year following Permit Issuance (for the previous calendar year). To be submitted on a form approved by the Commissioner, both to the Commissioner, and to the U.S. EPA regional office in Chicago. This report covers all deviations experienced during the calendar year.	Total Facility

APPENDIX MATERIAL
Facility Name:LeSueur Inc
Permit Number: 07900017-002

Insignificant Activities and Applicable Requirements

Minn. R. 7007.1300, subpart	Rule Description of the Activity	Applicable Requirement
3(A)	Fuel use: space heaters fueled by, kerosene, natural gas, or propane. • Facility has natural gas fired space heaters	Minn. R. 7011.0510/0515
3(H)	Miscellaneous: 4. brazing, soldering or welding equipment; • Welding machines	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: 1. 4,000 lbs/year of carbon monoxide; and 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. • Four rooftop HVAC units, each 0.45 MMBtu/hour, each has a PTE less than the above thresholds (EU161, EU162, EU163, EU164) • Make-up air heater, 2.0 MMBtu/hr, PTE is less than above thresholds (EU165) • 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) • Three electric aging/stress relief ovens, each has PTE less than the above thresholds (EU114, EU115, EU116) • Acid etch system, PTE less than the above thresholds (EU103) • 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)	Minn. R. 7011.0510/0515 Minn. R. 7011.0510/0515 Minn. R. 7011.0610 Minn. R. 7011.0710/0715 Minn. R. 7011.0710/0715 Minn. R. 7011.0710/0715

Minn. R. 7007.1300, subpart	Rule Description of the Activity	Applicable Requirement
4	A. Potential emissions of 5.7 pounds per hour of carbon monoxide or actual emissions of two tons per year of carbon monoxide; 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; 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 dibenzofuran. If the emission unit emits one or more of the HAPs listed in this subitem, the emissions unit is not an insignificant activity under this subitem. • Thermoplastic injection molding operation. Actual emissions are below all of the listed thresholds, and none of the listed HAPs are emitted.	Minn. R. 7011.0710/0715

TECHNICAL SUPPORT DOCUMENT
For Le Sueur Inc.
DRAFT AIR EMISSION PERMIT NO. 07900017-002

This technical support document is for all the interested parties of the draft permit. The purpose of this document is to set forth the legal and factual basis for the draft permit conditions, including references to the applicable statutory or regulatory provisions.

1. General Information

1.1 Applicant and Stationary Source Location:

Owner and Operator Address and Phone Number	Facility Address (SIC Code: 3365)
LeSueur Incorporated P.O. Box 149 1409 Vine Street Le Sueur, MN 56058 Mike Horton Facilities Engineer (507)665-6204	LeSueur Incorporated 1409 Vine Street Le Sueur, Le Sueur County, MN

1.2 Description of the facility

LeSueur Inc. 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, shotblasting, and finishing the castings; sand handling equipment; and plant heating equipment. LeSueur Inc. also has a thermoplastic injection molding operation on site, which is an insignificant activity under Minn. R. 7007.1300, subps. 4(B) and 4(C)(2).

1.3 Description of any changes allowed with this permit issuance

This permit authorizes the Permittee to install and operate "Pep Set Machine" and it's pollution control equipment (fabric filter), allow for revision of several pressure drop ranges for the pollution control equipment listed in the permit, add a fabric filter for the sand silos, and also to revise the total quantity of aluminum that may be melted in a year. There is currently a limit of 15,000 tons per year of aluminum that may be melted at the facility. **The Permittee proposes the limit to be raised to 17,500 tons per year, and this increase is due to the inclusion of aluminum remelt and increase in production.**

1.4. Facility Emissions

Table 1. Emissions Associated With the Modification

Pollutant	PM tpy	PM_{10} tpy	SO_2 tpy	NOx tpy	CO tpy	VOC tpy	Pb tpy	Single HAP tpy	All HAPs tpy
Limited Emissions from Modification	15.2	3.2	3.1	2.98	1.4	3.1	0.0	0.0	0.0

Table 2. Total Facility Potential to Emit Summary

Pollutant	PM tpy	PM_{10} tpy	SO_2 tpy	NOx tpy	CO Tpy	VOC tpy	Pb tpy	Single HAP tpy	All HAPs tpy
Total Facility Limited Potential Emissions	242.3	121.1	22.43	78.7	53.5	143.9	0.0	5.3	37.9
Total Facility Actual Emissions*	98.05	44.46	6.69	18.1	10.6	18.83	0.0	**	**

* This information is provided by the Permittee for the 1999 year Emissions Inventory purposes
** The Permittee is not required to report this information

Table 3. Permit Action Classification

Classification	Major/Affected Source	*Synthetic Minor	*Minor
PSD (list pollutant)		PM, PM_{10}, VOC	SO_x, NO_x, CO
NAAR (list pollutant)			
Part 70 Permit Program (list pollutant)			PM_{10}, SO_x, NO_x, CO, VOC

* Refers to potential emissions that are less than those specified as major by 40 CFR § 52.21, 40 CFR pt. 51 Appendix S, and 40 CFR pt. 70.

2. Regulatory and/or Statutory Basis

Summary Regulatory and/or Statutory Basis of the Emission or operational Limit

Regulatory Overview of Units Affected by the Modification

Table 4. Regulatory Overview

*EU, GP, CE	Applicable Regulations	Comments
GP 001	40 CFR § 52.21; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 and subp. 5	Title I Condition: Total aluminum melted at the facility less than or equal to 17,500 tons per year; Monthly recordkeeping requirement
EU 170	Minn. R. 7011.0715, subp. 1(A) and (B)	Total Particulate Matter: less than or equal to 0.3 grains/dscf; Opacity: less than or equal to 20%.
CE 014	40 CFR § 52.21; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2, subp. 4, subp. 5 and subp. 14	Title I Condition: Operate and maintain the pollution control equipment to achieve an overall control efficiency of greater than or equal to 99%. Pressure Drop recordkeeping; Periodic Inspections of control equipment components, and Corrective Actions as necessary.
CE 015	40 CFR § 52.21; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2, subp. 4, subp. 5 and subp. 14	Title I Condition: Operate and maintain the pollution control equipment to achieve an overall control efficiency of greater than or equal to 99%. Pressure Drop recordkeeping; Periodic Inspections of control equipment components, and Corrective Actions as necessary.

* EU = Emission Unit, GP = Group, CE = Control Equipment

3. Technical Information

- EAW/EIS Applicability: This modification does not trigger EAW or EIS
- New Source Review: Le Sueur Incorporated facility took limits to stay below the major source classification and below the major modification thresholds
- NSPS: Pep Set Core Machine is not subject to any New Source Performance Standards
- Clean Air Act 112(g)(2)(B): Addition of this core machine does not qualify as Reconstruction of a major source for HAPs, and hence 112(g)(2)(B) does not apply.

Note: There were no comments received from EPA during their review 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. 07900017-002, and this technical support document, will not cause or contribute to a violation of applicable federal regulations and Minnesota Rules.

Staff Members on Permit Team: John S. Chikkala