

**AIR EMISSION PERMIT NO. 13700113- 001**

**IS ISSUED TO**

**EVTAC Mining - Plant**

Highway 16

Forbes, St. Louis County, Minnesota 55738

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**

Total Facility Operating Permit

Supplemental Total Facility Operating Permit

Revised Title V Permit

**Application Date**

January 15, 1995

April 10, 1996

December 15, 1997

This permit authorizes the Permittee to operate the stationary source at the address listed above unless otherwise noted in Table A. The Permittee must comply with all the conditions of the permit. Any changes or modifications to the stationary source must be performed in compliance with Minn. Rules pts. 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

**Issue Date:** February 23, 2000

**Expiration:** February 23, 2005

All Title I Conditions do not expire.

Ann M. Foss

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Ann M. Foss

Manager

North and South Major Facilities

For Karen A. Studders

Commissioner

Minnesota Pollution Control Agency

HJ:yma

## **TABLE OF CONTENTS**

**Notice to the Permittee**

**Permit Shield**

**Facility Description**

**Table A: Limits and Other Requirements**

**Table B: Submittals**

**Table C: Compliance Schedule**

**Appendix A: { Not applicable to this permit }**

**Appendix B: Visible Emission Checklists**

**Appendix C: Inapplicable Requirements and Insignificant Activities**

**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. Certain requirements which have been determined not to apply are listed in Appendix C of this permit.

**FACILITY DESCRIPTION:**

Crushed ore is unloaded in a covered building. The ore is then transferred by a covered conveyor to the fines crusher building where it is immediately crushed at the third stage crusher or sent to the coarse ore surge pile. The coarse ore surge pile is used to store ore between train shipments or during times when the crusher is down.

Ore is returned from the coarse ore surge pile and fed into one of the five third-stage crushers. Particulate emissions from the third-stage crushers are controlled by wet scrubbers. The oversize material is conveyed to one of eight fourth-stage crushers. Each fourth-stage crusher has a dedicated wet scrubber to control particulate emissions. Undersize material is transferred to the fine ore surge building. Oversize material is recirculated to the fourth stage crushers.

Five concentrator lines receive ore from the fine ore surge building. Particulate emissions from the transfer of fine ore to the concentrator lines are controlled using wet scrubbers. Here ore is ground and magnetic separators remove the magnetite ore from the tailings. Low-magnetic coarse tailings are transported by truck for use as construction material for the tailing basin sidewalls. Fine tailings are pumped in slurry form to the tailings basin. Processes performed in the concentrator are wet operations.

Concentrate is piped as a slurry to the pelletizing plant. The slurry is dewatered with filters and additives are introduced. Green pellets are produced in balling drums and conveyed to one of two travelling grate kilns. Grate feed, grate discharge, kiln induration, and kiln cooler emissions are controlled with wet scrubbers.

Fired pellets are conveyed to pellet storage silos. Pellets are then loaded into rail cars and transported from the facility. Particulate emissions from the pellets are controlled with wet scrubbers and dust suppressants. Intermediate products and byproducts, including but not limited to rocks, tailings, and concentrate, are also sold by the Permittee.

Supporting activities in the Fairlane Plant include maintenance shops and offices.

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**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.**

<b>Subject Item: Total Facility</b>	
<b>What to do</b>	<b>Why to do it</b>
<b>OPERATIONAL REQUIREMENTS</b>	hdr
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. The Permittee shall comply with the requirements of the Fugitive Control Plan as an indicator of compliance with Minn.R. 7011.0150.	Minn. R. 7011.0150
Noise: The Permittee shall comply with Minn. R. 7030.0010 to 7030.0080. 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
Opacity Standards: Opacity standards apply at all times except during periods of start-up, shutdown, and malfunction, and as otherwise provided in an applicable requirement or compliance document. The exemption for periods of start-up, shutdown and malfunction applies only if the conditions of Minn. R. 7011.0010, subp. 4(A), (B), and (C) are met.	Minn. R. 7011.0010, subp. 4
Visible Emissions Check: The Permittee shall check visible emissions once daily when in operation during daylight hours using the visible emissions checklists for all sources included in Appendix B. If, based on completion of the checklist, the Permittee determines that additional investigative or remedial action is required, the Permittee shall investigate process and control equipment, and, if necessary, implement appropriate corrective action.	Minn. R. 7007.0800, subp. 4(D) and Minn. R. 7007.0800, subp. 14 and Minn. R. 7007.0800, subp. 16(J)
Visible Emissions Checklists: The Permittee shall use the Stack Emissions Checklists identified in Appendix B. These checklists will become part of the O&M plan upon Plan approval.	Minn. R. 7007.0800, subp. 4(D) and Minn. R. 7007.0800, subp. 14 and Minn. R. 7007.0800, subp. 16(J)
For all units identified in the Stack Emissions Checklists that are controlled by fabric filters, cyclones, and multiclones, a daily check of pressure drop is required if visible emissions in the plume are unreadable due to visible moisture. For all units identified in the Stack Emissions Checklists that are controlled by scrubbers, a daily check of pressure drop and total water pressure is required if the visible emissions in the plume are unreadable due to visible moisture.	Minn. R. 7007.0800, subp. 4(D) and Minn. R. 7007.0800, subp. 14 and Minn. R. 7007.0800, subp. 16(J)
Fugitive Dust Observations: Prior to the approval of the Fugitive Control Plan, the Permittee shall use the Fugitive Emissions Checklists to monitor fugitive dust control practices. The Permittee shall observe fugitive dust sources once daily during daylight hours for all units identified in the Fugitive Emissions Checklists. In the event the Permittee makes a finding that attention to fugitive dust sources is required, the Permittee shall investigate the fugitive dust sources and implement corrective action, if necessary.	Minn. R. 7007.0800, subp. 4(D) and Minn. R. 7007.0800, subp. 14 and Minn. R. 7007.0800, subp. 16(J)
Upon approval of the Fugitive Control Plan the Fugitive Emissions Checklists shall become part of the Plan. The Permittee shall observe fugitive dust sources once daily during daylight hours for all units identified in the Fugitive Emissions Checklists. The Permittee shall use the Fugitive Emissions Checklists in the fugitive dust control plan as a means to indicate when appropriate corrective actions in the fugitive control plan are taken.	
Fugitive Sources Visible Emissions Checklists: The Permittee shall use Fugitive Emissions Checklist identified in Appendix B. These checklist(s) will become part of the Fugitive Control Plan upon Plan approval.	Minn. R. 7007.0800, subp. 4(D) and Minn. R. 7007.0800, subp. 14 and Minn. R. 7007.0800, subp. 16(J)
Visible Emissions Training: The Permittee shall (1) ensure that one employee obtain an initial EPA Method 9 certification and be recertified every three years or (2) employ a similarly certified contractor. This person will train other employees to perform the daily visible emissions check as detailed in the O&M Plan and Fugitive Control Plan.	Minn. R. 7007.0800, subp. 4(D) and Minn. R. 7007.0800, subp. 14 and Minn. R. 7007.0800, subp. 16(J)
The Permittee shall comply with all general conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
<b>PLANS</b>	hdr
Comply with the O & M Plan: Follow the actions and recordkeeping specified in the O & M plan. The plan may be amended by the Commissioners written approval.	Minn. R. 7007.0800 subp. 14 and Minn. R. 7007.0800 subp. 16(J)
Comply with the Fugitive Control Plan: Follow the actions and recordkeeping specified in the fugitive control plan. The plan may be amended with the Commissioners approval. If the Commissioner determines the Permittee is out of compliance with Minn. R. 7011.0150, or fugitive control plan, then the Permittee may be required to amend the fugitive control plan.	Minn. R. 7011.0150

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

The Permittee may be required to submit a Risk Management Plan (RMP) under the federal rule, 40 CFR Part 68 which was promulgated on June 20, 1996. The rule requires each owner or operator of a stationary source, at which a regulated substance is present above a threshold quantity in a process, to design and implement an accidental release prevention program. These requirements must be complied with no later than the latest of the following dates: (1) Three years after the date on which a regulated substance is first listed under 40 CFR Section 68.130; or (2) The date on which a regulated substance is first present above a threshold quantity in a process.	40 CFR Part 68
POLLUTION CONTROL EQUIPMENT	hdr
Air Pollution Control Equipment: Operate all pollution control equipment whenever the corresponding process equipment and emission units are operated, unless otherwise noted in Table A.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 16(J)
TESTING REQUIREMENTS	hdr
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
Performance Tests: A) Performance testing for Line 1 (specifically, EU037-EU041 and the associated control equipment and stacks) shall be tested at a green ball feed rate of greater than or equal to 250 long tons per hour. B) Performance testing for Line 2 (specifically, EU033-EU036 and EU042 and the associated control equipment and stacks) shall be tested at a green ball feed rate of greater than or equal to 630 long tons per hour. C) All other emission units and their associated control equipment and stacks shall be tested at greater than or equal to 90% of the emission units rated capacity. If a performance test is conducted at less than the applicable minimum rate given above, the Permittee shall be given the opportunity to retest within 90 days of the subject test before process limits can be applied as specified in Minn. R. 7017.2025, subp. 3.	Minn. R. 7017.2025
MONITORING REQUIREMENTS	hdr
Monitoring Equipment Installation: Install monitoring equipment for air pollution control devices within 180 days of permit issuance. (Monitoring equipment, if not already existing, must be installed within this time period to monitor surrogate parameters such as "Gas Stream Pressure Drop," "Water Flow Rate," and/or "Total Water Pressure," which are listed in Table A for specific Groups and Emission Units.)	Minn. R. 7007.0800 subp. 4(D)
Monitoring Equipment Debugging, Troubleshooting, and Establishment of Parameter Ranges: Complete within 180 days of installation or of completion of needed repairs of all monitoring equipment.	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, such as for system breakdowns, repairs, calibration checks, and zero and span adjustments (as applicable). Monitoring records should reflect any such periods of process shutdown.	Minn. R. 7007.0800, subp. 4(D)
RECORD KEEPING	hdr
Record keeping: 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 strip-chart 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)
Contractors: The Permittee shall retain records on site of each contractor that is allowed on site to operate any crushers, screens and conveyors. The Permittee shall also retain records on site of each contractor whose operations would require an air emissions permit from the MPCA. The records for each contractor shall consist of the contractor's company name, MPCA air emissions permit number (if any), short description of on-site activities undertaken by the contractor, estimate materials handled and the dates the contractor was on site. The records shall be updated quarterly. This is a state-only requirement and is not enforceable by the EPA administrator or citizens under the Clean Air Act.	Minn. R. 7011.0800 subp. 2
REPORTING	hdr

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

<p>Notification of Deviations Endangering Human Health or the Environment: In the event of any deviation, as defined in part 7007.0100, subpart 8a, which could endanger human health or the environment, notify, orally or in writing, the Commissioner or the state duty officer, as soon as possible after discovery of the deviation. Within two working days of the discovery, submit to the Commissioner a written description of the deviation stating:</p> <p>A. the cause of the deviation;  B. the exact dates of the period of the deviation, if the deviation has been corrected;  C. whether or not the deviation has been corrected;  D. the anticipated time by which the deviation is expected to be corrected, if not yet corrected; and  E. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation.</p>	Minn. R. 7007.0800, subp. 6(A), Minn. R. 7019.1000, subp. 1
<p>Shutdowns: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any process or control equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. If the owner or operator does not have advance knowledge of the shutdown, notification shall be made to the Commissioner as soon as possible after the shutdown. However, notification is not required in the circumstances outlined in Items A, B, and C of Minn. R. 7019.1000, subp. 3.</p> <p>At the time of notification, the owner or operator shall inform the Commissioner of the cause of the shutdown and the estimated duration. The owner or operator shall notify the Commissioner when the shutdown is over.</p>	Minn. R. 7019.1000, subp. 3
<p>Breakdowns: 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 emission of any regulated air pollutant. The 24-hour time period starts when the breakdown was discovered or reasonably should have been discovered by the owner or operator. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 2.</p> <p>At the time of notification or as soon as possible thereafter, the owner or operator shall also 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.</p>	Minn. R. 7019.1000, subp. 2
Emission Fees: due 60 days after receipt of an MPCA bill.	Minn. R. 7002.0005 through Minn. R. 7002.0095
MISCELLANEOUS	hdr
<p>Inspections: Upon presentation of credentials and other documents as may be required by law, allow the Agency, or its authorized representative, to enter the Permittee's premises, to have access to and copy any records required by this permit, to inspect at reasonable times (which include any time the source is operating) any facilities, equipment, practices or operations, and to sample or monitor any substances or parameters at any location.</p>	Minn. R. 7007.0800, subp. 9(A)
<p>Extension Requests: The permittee may apply for an Administrative Amendment to extend a deadline in a permit by no more than 120 days, provided the proposed deadline extension meets the requirements of Minn. R. 7007.1400, subp. 1(H).</p>	Minn. R. 7007.1400, subp. 1(H)
<p>Application for Permit Amendment: If you need a permit amendment, submit application in accordance with the requirements of Minn. R. 7007.1150 through Minn. R. 7007.1500. Submittal dates vary, depending on the type of amendment needed.</p>	Minn. R. 7007.1150 through Minn. R. 7007.1500
<p>Circumvention: Do not install or use a device or means that conceals or dilutes emissions, which would otherwise violate a federal or state air pollution control rule, without reducing the total amount of pollutant emitted.</p>	Minn. R. 7011.0020

# TABLE A: LIMITS AND OTHER REQUIREMENTS

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** GP 001 Third Stage Crushers

**Associated Items:** CE 007 Wet Scrubber-High Efficiency w/o Lime  
CE 008 Wet Scrubber-High Efficiency w/o Lime  
CE 009 Wet Scrubber-High Efficiency w/o Lime  
CE 010 Wet Scrubber-High Efficiency w/o Lime  
CE 011 Wet Scrubber-High Efficiency w/o Lime  
EU 005 Third Stage Crusher 1  
EU 006 Third Stage Crusher 2  
EU 007 Third Stage Crusher 3  
EU 008 Third Stage Crusher 4  
EU 009 Third Stage Crusher 5  
SV 011  
SV 012  
SV 013  
SV 014  
SV 015

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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 to each unit individually.	Minn. R. 7011.0715, subp. 1(A)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.) This limit applies to each unit individually.	Minn. R. 7011.0715, subp. 3
Opacity: less than or equal to 20 percent opacity .	Minn. R. 7011.0715, subp. 1(B)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Total Water Pressure: Monitor and record once per week when in operation once the water total pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
C. PERFORMANCE TESTING	hdr
Performance Test: due before 12/31/2001 on one (1) representative unit to measure PM and Opacity emissions.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before Performance Test	Minn. R. 7017.2030, subp. 4



**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item: GP 002 Fourth Stage Crushers****Associated Items:** CE 012 Wet Scrubber-High Efficiency w/o Lime

CE 013 Wet Scrubber-High Efficiency w/o Lime

CE 014 Wet Scrubber-High Efficiency w/o Lime

EU 011 Fourth Stage Crusher 1

EU 012 Fourth Stage Crusher 2

EU 013 Fourth Stage Crusher 3

SV 017

SV 018

SV 019

What to do	Why to do it
<b>A. POLLUTANT LIMITS</b>	hdr
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 to each unit individually.	Minn. R. 7011.0710, subp. 1(A)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.) This limit applies to each unit individually.	Minn. R. 7011.0710, subp. 3
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)
<b>B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS</b>	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Total Water Pressure: Monitor and record once per week when in operation once the water total pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
<b>C. PERFORMANCE TESTING REQUIREMENTS</b>	hdr
Performance Test: due before 12/31/2002 and every fifth calendar year thereafter to measure PM and Opacity emissions. One stack shall be tested each fifth calendar year in the following order: SV018, SV017, SV019.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before Performance Test	Minn. R. 7017.2030, subp. 4

# TABLE A: LIMITS AND OTHER REQUIREMENTS

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** GP 003 Fourth Stage Crushers (Post 1969)

**Associated Items:** CE 015 Wet Scrubber-High Efficiency w/o Lime  
CE 016 Wet Scrubber-High Efficiency w/o Lime  
CE 017 Wet Scrubber-High Efficiency w/o Lime  
CE 018 Wet Scrubber-High Efficiency w/o Lime  
CE 019 Wet Scrubber-High Efficiency w/o Lime  
EU 014 Fourth Stage Crusher 4  
EU 015 Fourth Stage Crusher 5  
EU 016 Fourth Stage Crusher 6  
EU 017 Fourth Stage Crusher 7  
EU 018 Fourth Stage Crusher 8  
SV 020  
SV 021  
SV 022  
SV 023  
SV 024

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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 to each unit individually.	Minn. R. 7011.0715, subp. 1(A)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.) This limit applies to each unit individually.	Minn. R. 7011.0715, subp. 3
Opacity: less than or equal to 20 percent opacity .	Minn. R. 7011.0715, subp. 1(B)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Total Water Pressure: Monitor and record once per week when in operation once the water total pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
C. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due before 12/31/2003 and every fifth calendar year thereafter to measure PM and Opacity emissions. One stack shall be tested each fifth calendar year in the following order: SV020, SV023, SV021, SV024, SV022.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before Performance Test	Minn. R. 7017.2030, subp. 4

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item: GP 004 Rod Mill Feeds****Associated Items:** CE 027 Wet Scrubber-High Efficiency w/o Lime

CE 028 Wet Scrubber-High Efficiency w/o Lime

EU 023 #1 Rod Mill Feed

EU 024 #2 Rod Mill Feed

SV 029

SV 030

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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 to each unit individually.	Minn. R. 7011.0710, subp. 1(A)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.) This limit applies to each unit individually.	Minn. R. 7011.0710, subp. 3
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)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Total Water Pressure: Monitor and record once per week when in operation once the water total pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
C. PERFORMANCE TESTING	hdr
Performance Test: due before 12/31/2002 on one (1) representative unit to measure PM and Opacity emissions.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before Performance Test	Minn. R. 7017.2030, subp. 4

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item: GP 005 Rod Mill Feeds (Post 1969)****Associated Items:** CE 029 Wet Scrubber-High Efficiency w/o Lime

CE 030 Wet Scrubber-High Efficiency w/o Lime

CE 031 Wet Scrubber-High Efficiency w/o Lime

EU 025 #3 Rod Mill Feed

EU 026 #4 Rod Mill Feed

EU 027 #5 Rod Mill Feed

SV 031

SV 032

SV 033

What to do	Why to do it
<b>A. POLLUTANT LIMITS</b>	hdr
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 to each unit individually.	Minn. R. 7011.0715, subp. 1(A)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.) This limit applies to each unit individually.	Minn. R. 7011.0715, subp. 3
Opacity: less than or equal to 20 percent opacity .	Minn. R. 7011.0715, subp. 1(B)
<b>B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS</b>	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Total Water Pressure: Monitor and record once per week when in operation once the water total pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
<b>C. PERFORMANCE TESTING REQUIREMENTS</b>	hdr
Performance Test: due before 12/31/2001 on one (1) representative unit to measure PM and Opacity emissions.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before Performance Test	Minn. R. 7017.2030, subp. 4

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item: GP 006 Shop and Fuel Handling Boilers****Associated Items:** EU 051 Fairlane Truck Shop Boiler

EU 052 Fairlane New Shop Boiler

EU 053 Fuel Handling Boiler #1

EU 054 Fuel Handling Boiler #2

SV 107

SV 108

SV 109

SV 110

What to do	Why to do it
POLLUTANT LIMITS	hdr
Total Particulate Matter: less than or equal to 0.6 lbs/million Btu heat input . This limit applies individually to each emission unit in GP 006.	Minn. R. 7011.0510, subp. 1
Sulfur Dioxide: less than or equal to 2.0 lbs/million Btu heat input . This limit applies individually to each emission unit in GP 006. Permittee shall calculate sulfur dioxide emissions based on records of vendor certification of fuel sulfur content, as an indicator of compliance with Minn.R. 7011.0510, subp. 1.	Minn. R. 7011.0510, subp. 1
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity. This limit applies individually to each emission unit in GP 006.	Minn. R. 7011.0510, subp. 2
OTHER LIMITS AND REQUIREMENTS	hdr
Fuel Usage: Limited to natural gas and distillate oil only.	Minn. R. 7007.0800, subp. 2

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 001 Crude Ore Unloading Pan Feeders**Associated Items:** CE 004 Fabric Filter - Low Temperature, i.e., T<180 Degrees F  
SV 007

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0710, subp. 3
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)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 002 Crude Ore Unloading**Associated Items:** CE 002 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 005 Fabric Filter - Low Temperature, i.e., T&lt;180 Degrees F

SV 008

SV 009

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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 to each unit individually.	Minn. R. 7011.0715, subp. 1(A)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.) This limit applies to each unit individually.	Minn. R. 7011.0715, subp. 3
Opacity: less than or equal to 20 percent opacity .	Minn. R. 7011.0715, subp. 1(B)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
C. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due before 12/31/2003 to measure PM and Opacity. PM emissions from EU002 shall be determined as the total from SV008 and SV009.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before Performance Test	Minn. R. 7017.2030, subp. 4

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 004 Coarse Ore Surge**Associated Items:** CE 006 Fabric Filter - Low Temperature, i.e., T<180 Degrees F  
SV 010

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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. 7011.0715, subp. 1(A)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0715, subp. 3
Opacity: less than or equal to 20 percent opacity .	Minn. R. 7011.0715, subp. 1(B)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
C. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due before 12/31/2003 and every fifth calendar year thereafter to measure PM and Opacity.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before Performance Test	Minn. R. 7017.2030, subp. 4



**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 010 Third Stage Bins Conveyor**Associated Items:** CE 001 Wet Scrubber-High Efficiency w/o Lime  
SV 016

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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. 7011.0715, subp. 1(A)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0715, subp. 3
Opacity: less than or equal to 20 percent opacity .	Minn. R. 7011.0715, subp. 1(B)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Total Water Pressure: Monitor and record once per week when in operation once the water total pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
C. PERFORMANCE TESTING	hdr
Performance Test: due before 12/31/2000 to measure PM and Opacity emissions.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before Performance Test	Minn. R. 7017.2030, subp. 4

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 019 Fourth Stage Trip/Bin/Convey**Associated Items:** CE 024 Wet Scrubber-High Efficiency w/o Lime  
SV 025

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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. 7011.0715, subp. 1(A)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0715, subp. 3
Opacity: less than or equal to 20 percent opacity .	Minn. R. 7011.0715, subp. 1(B)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Total Water Pressure: Monitor and record once per week when in operation once the water total pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
C. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due before 12/31/2000 to measure PM and Opacity emissions.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before Performance Test	Minn. R. 7017.2030, subp. 4

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 020 Transfer House North**Associated Items:** CE 025 Wet Scrubber-High Efficiency w/o Lime  
SV 026

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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. 7011.0715, subp. 1(A)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0715, subp. 3
Opacity: less than or equal to 20 percent opacity .	Minn. R. 7011.0715, subp. 1(B)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Total Water Pressure: Monitor and record once per week when in operation once the water total pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
C. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due before 12/31/2002 to measure PM and Opacity emissions.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before Performance Test	Minn. R. 7017.2030, subp. 4

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 022 Transfer House South**Associated Items:** CE 026 Wet Scrubber-High Efficiency w/o Lime  
SV 028

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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. 7011.0715, subp. 1(A)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0715, subp. 3
Opacity: less than or equal to 20 percent opacity .	Minn. R. 7011.0715, subp. 1(B)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Total Water Pressure: Monitor and record once per week when in operation once the water total pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
C. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due before 12/31/2002 to measure PM and Opacity emissions.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before Performance Test	Minn. R. 7017.2030, subp. 4

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 028 Limestone/Soda Ash Storage Bins**Associated Items:** CE 051 Fabric Filter - Low Temperature, i.e., T<180 Degrees F  
SV 034

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0710, subp. 3
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)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 029 Additive Unloading**Associated Items:** CE 052 Fabric Filter - Low Temperature, i.e., T<180 Degrees F  
SV 035

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0710, subp. 3
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)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 030 Line 2 Additive Storage Bins**Associated Items:** CE 043 Fabric Filter - Low Temperature, i.e., T<180 Degrees F  
SV 036

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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. 7011.0715, subp. 1(A)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0715, subp. 3
Opacity: less than or equal to 20 percent opacity .	Minn. R. 7011.0715, subp. 1(B)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 031 Line 2 Additive Addition**Associated Items:** CE 044 Fabric Filter - Low Temperature, i.e., T<180 Degrees F  
SV 037

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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. 7011.0715, subp. 1(A)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0715, subp. 3
Opacity: less than or equal to 20 percent opacity .	Minn. R. 7011.0715, subp. 1(B)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)



**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 032 Soda Ash/Binder Mixing**Associated Items:** CE 057 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 058 Fabric Filter - Low Temperature, i.e., T&lt;180 Degrees F

SV 038

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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. 7011.0715, subp. 1(A)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0715, subp. 3
Opacity: less than or equal to 20 percent opacity .	Minn. R. 7011.0715, subp. 1(B)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 033 Line 2 Grate Feed**Associated Items:** CE 045 Wet Scrubber-High Efficiency w/o Lime  
SV 039

What to do	Why to do it
<b>A. POLLUTANT LIMITS</b>	hdr
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. 7011.0715, subp. 1(A)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0715, subp. 3
Opacity: less than or equal to 20 percent opacity .	Minn. R. 7011.0715, subp. 1(B)
<b>B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS</b>	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Total Water Pressure: Monitor and record once per week when in operation once the water total pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
<b>C. PERFORMANCE TESTING REQUIREMENTS</b>	hdr
Performance Test: due before 12/31/2003 to measure PM and Opacity emissions.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before Performance Test	Minn. R. 7017.2030, subp. 4

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 034 Line 2 Grate Discharge**Associated Items:** CE 046 Wet Scrubber-High Efficiency w/o Lime  
SV 040

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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. 7011.0715, subp. 1(A)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0715, subp. 3
Opacity: less than or equal to 20 percent opacity .	Minn. R. 7011.0715, subp. 1(B)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Total Water Pressure: Monitor and record once per week when in operation once the water total pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
C. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due before 12/31/2003 to measure PM and Opacity emissions.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before Performance Test	Minn. R. 7017.2030, subp. 4

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 035 Line 2 Kiln Cooler Discharge**Associated Items:** CE 033 Wet Scrubber-High Efficiency w/o Lime

CE 047 Wet Scrubber-High Efficiency w/o Lime

CE 060 Wet Scrubber-High Efficiency w/o Lime

SV 041

SV 050

SV 070

What to do	Why to do it
<b>A. POLLUTANT LIMITS</b>	hdr
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. 7011.0715, subp. 1(A)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0715, subp. 3
Opacity: less than or equal to 20 percent opacity .	Minn. R. 7011.0715, subp. 1(B)
<b>B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS</b>	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Total Water Pressure: Monitor and record once per week when in operation once the water total pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
<b>C. PERFORMANCE TESTING REQUIREMENTS</b>	hdr
Performance Test: due before 12/31/2004 to measure PM and Opacity emissions. PM emissions from EU035 shall be determined as the total from SV041, SV050 and SV070.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before Performance Test	Minn. R. 7017.2030, subp. 4

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 036 Line 2 Pellet Cooler Exhaust**Associated Items:** SV 042

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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. 7011.0715, subp. 1(A)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0715, subp. 3
Opacity: less than or equal to 20 percent opacity .	Minn. R. 7011.0715, subp. 1(B)
B. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due before end of each year starting 12/31/1999 to measure PM and Opacity. The first test is due on or before 12/31/99. Each test shall be completed before the end of the applicable calendar year.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before end of each year starting 12/31/1999 (7 days before each performance test)	Minn. R. 7017.2030, subp. 4

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 037 Line 1 Grate Feed**Associated Items:** CE 053 Wet Scrubber-High Efficiency w/o Lime  
SV 043

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0710, subp. 3
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)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Total Water Pressure: Monitor and record once per week when in operation once the water total pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
C. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due 730 days after Resuming Operation of Line 1 to measure PM and Opacity emissions.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before Performance Test	Minn. R. 7017.2030, subp. 4

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 038 Line 1 Grate Discharge**Associated Items:** CE 054 Wet Scrubber-High Efficiency w/o Lime  
SV 044

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0710, subp. 3
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)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Total Water Pressure: Monitor and record once per week when in operation once the water total pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
C. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due 730 days after Resuming Operation of Line 1 to measure PM and Opacity emissions.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before Performance Test	Minn. R. 7017.2030, subp. 4

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 039 Line 1 Kiln Cooler Discharge**Associated Items:** CE 055 Wet Scrubber-High Efficiency w/o Lime  
SV 045

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0710, subp. 3
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)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Total Water Pressure: Monitor and record once per week when in operation once the water total pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
C. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due 730 days after Resuming Operation of Line 1 to measure PM and Opacity emissions.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before Performance Test	Minn. R. 7017.2030, subp. 4



**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 040 Line 1 Pellet Induration**Associated Items:** CE 056 Wet Scrubber-High Efficiency w/o Lime  
SV 046

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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. 7011.0610, subp. 1(A)(1) and Minn. R. 7011.0710, subp. 1(A)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0610, subp. 1(A)(1) and Minn. R. 7011.0710, subp. 3
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. 7011.0610, subp. 1(A)(2)
Sulfur Dioxide: less than or equal to 2 lbs/million Btu heat input using 3-hour Average when a liquid fossil fuel is burned. The Permittee shall maintain records of vendor certification of fuel sulfur content and relevant calculations..	Minn. R. 7011.0610, subp. 2(B)
B. OPERATIONAL REQUIREMENTS	hdr
Fuel Usage: limited to natural gas and distillate oil.	Minn. R. 7007.0800, subp. 2
C. CONTROL EQUIPMENT MONITORING	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(B); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure drop: Monitor and record daily when in operation at the wet scrubber, CE 056.	Minn. R. 7007.0800, subp. 4(B); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Water Flow Rate or Total Water Pressure: Monitor and record daily when in operation at the wet scrubber, CE 056.	Minn. R. 7007.0800, subp. 4(B); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
D. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due 365 days after Resuming Operation of Line 1 to measure PM, SO <sub>2</sub> and Opacity emissions.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before Performance Test	Minn. R. 7017.2030, subp. 4

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 041 Line 1 Pellet Cooler Exhaust**Associated Items:** SV 047

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0710, subp. 3
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)
B. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due before end of each year following Resuming Operation of Line 1 to measure PM and Opacity. The first test is due on or before December 31 of the year of startup. Each test shall be completed before the end of the applicable calendar year.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before end of each year following Resuming Operation of Line 1 (7 days before each performance test)	Minn. R. 7017.2030, subp. 4

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 042 Line 2 Pellet Induration**Associated Items:** CE 049 Wet Scrubber-High Efficiency w/o Lime

CE 050 Wet Scrubber-High Efficiency w/o Lime

SV 048

SV 049

What to do	Why to do it
<b>A. POLLUTANT LIMITS</b>	hdr
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. 7011.0610, subp.1(A)(1) and Minn. R. 7011.0715, subp. 1(A)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0610, subp.1(A)(1) and Minn. R. 7011.0715, subp. 3
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. 7011.0610, subp. 1(A)(2)
Sulfur Dioxide: less than or equal to 4 lbs/million Btu heat input using 3-hour Average when a solid fossil fuel is burned.	Minn. R. 7011.0610, subp. 2(B)
Sulfur Dioxide: less than or equal to 2 lbs/million Btu heat input using 3-hour Average when a liquid fossil fuel is burned. The Permittee shall maintain records of vendor certification of fuel sulfur content and relevant calculations.	Minn. R. 7011.0610, subp. 2(B)
<b>B. OPERATIONAL REQUIREMENTS</b>	hdr
Fuel Usage: limited to pulverized coal, coal/coke blend, distillate oil, and natural gas.	Minn. R. 7007.0800, subp. 2
Fuel Sampling: The Permittee shall collect a solid fuel sample each weekday from the pulverized fuel pipe. The Permittee shall form a weekly composite of all samples collected in a given calendar week.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 4(B)
Fuel Sulfur Content Monitoring: The Permittee shall analyze the weekly fuel composite samples for sulfur content in weight percent and heating value in BTU per pound, in accordance with current ASTM Methods.	Minn. R. 7007.0800, subp. 2 and Minn. R. 7007.0800, subp. 4(B)
Sulfur Dioxide Emissions Calculation: Within 21 days after the end of a calendar week, the Permittee shall calculate the SO <sub>2</sub> emissions rate in lbs/MMBtu from the results of the weekly fuel composite analysis, and the Sulfur Dioxide control efficiency of 25 percent or the value directly determined by recent performance testing - whichever is lower in value. The Permittee shall maintain a record of the analysis, calculations, and emission rate.	Minn. R. 7007.0800, subp. 2 and Minn. R. 7007.0800, subp. 4(B)
<b>C. CONTROL EQUIPMENT MONITORING</b>	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(B); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure drop: Monitor and record daily when in operation at each wet scrubber, CE049 and CE050.	Minn. R. 7007.0800, subp. 4(B); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Water Flow Rate or Total Water Pressure: Monitor and record daily when in operation at each wet scrubber, CE049 and CE050.	Minn. R. 7007.0800, subp. 4(B); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
<b>D. PERFORMANCE TESTING REQUIREMENTS</b>	hdr
Performance Test: due before end of each 36 months starting 12/31/2000 to measure PM, Opacity, and SO <sub>2</sub> emissions, including a mass-balance evaluation of SO <sub>2</sub> control efficiency. The first test is due on or before 12/31/2000 and each test shall be completed before the end of the calendar year in which it is due. The 2A and 2B stacks (SV048 and SV049) shall be tested simultaneously or successively as soon as possible. A fuel analysis including a minimum of Btu heat value, moisture and sulfur content shall be conducted in conjunction with the performance test.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before end of each 36 months starting 12/31/2000 (7 days before each performance test)	Minn. R. 7017.2030, subp. 4

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 046 Pellet Loadout Conveyor 22S/23S**Associated Items:** CE 034 Wet Scrubber-High Efficiency w/o Lime  
SV 052

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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. 7011.0715, subp. 1(A)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0715, subp. 3
Opacity: less than or equal to 20 percent opacity .	Minn. R. 7011.0715, subp. 1(B)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Total Water Pressure: Monitor and record once per week when in operation once the water total pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 057 Soda Ash/ Binder Day Bin 1**Associated Items:** CE 041 Fabric Filter - Low Temperature, i.e., T<180 Degrees F  
SV 057

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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. 7011.0715, subp. 1(A)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0715, subp. 3
Opacity: less than or equal to 20 percent opacity .	Minn. R. 7011.0715, subp. 1(B)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 058 Soda Ash/ Binder Addition**Associated Items:** CE 042 Fabric Filter - Low Temperature, i.e., T<180 Degrees F  
SV 058

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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. 7011.0715, subp. 1(A)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0715, subp. 3
Opacity: less than or equal to 20 percent opacity .	Minn. R. 7011.0715, subp. 1(B)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 062 Soda Ash/ Binder Day Bin 2**Associated Items:** CE 057 Fabric Filter - Low Temperature, i.e., T<180 Degrees F  
SV 038

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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. 7011.0715, subp. 1(A)
Total Particulate Matter: greater than or equal to 85 percent collection efficiency or higher for the pollution control equipment, the entire emission facility is in compliance with NAAQS and MAAQS, and the emission facility is located not less than one-fourth mile from any residence or public roadway. (This is an alternative requirement to the Total Particulate Matter Limit.)	Minn. R. 7011.0715, subp. 3
Opacity: less than or equal to 20 percent opacity .	Minn. R. 7011.0715, subp. 1(B)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
Process Monitoring: Check stack visible emissions (opacity) once daily using a checklist in Appendix B.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
Gas Stream Pressure Drop: Monitor and record once per week when in operation once the pressure gauges are installed.	Minn. R. 7007.0800, subp. 4(D); Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

**Subject Item:** EU 064 Pellet Loadout Bins Venting**Associated Items:** SV 064

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
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. 7011.0715, subp. 1(A)
Opacity: less than or equal to 20 percent opacity .	Minn. R. 7011.0715, subp. 1(B)



## TABLE B: SUBMITTALS

02/23/00

Facility Name: EVTAC Mining - Plant  
Permit Number: 13700113 - 001

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**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

What to send	When to send	Portion of Facility Affected
Application for Permit Reissuance	due 180 days before expiration of Existing Permit	Total Facility
Attainment Demonstration Plan	due 90 days after Computer Dispersion Modeling Results (the refined modeling results). The attainment demonstration plan shall be submitted, if the refined modeling results do not demonstrate attainment with the NAAQS and MAAQS. The plan may include an ambient air monitoring network, installation of pollution control equipment, and/or further refinements to the computer modeling. This is a state-only requirement and is not enforceable by the EPA administrator or citizens under the Clean Air Act.	Total Facility
Computer Dispersion Modeling Protocol	due 30 days after Effective Date of Permit. The Protocol shall use up-to-date emission rates for point and fugitive sources and incorporate comments already provided by MPCA. This computer dispersion modeling is a state-only requirement and not enforceable by the EPA administrator or citizens under the Clean Air Act.	Total Facility
Computer Dispersion Modeling Results	due 120 days after receipt of written MPCA request. This submittal is the refined modeling results. Results due 120 days after notification from MPCA that the final taconite processing plant Title V permit is issued. This submittal is only necessary if the initial modeling does not show attainment with the National Ambient Air Quality Standards or the Minnesota Ambient Air Quality Standards. This and the initial CDMR are state-only requirements and thus are not enforceable by the EPA administrator or citizens under the Clean Air Act.	Total Facility
Fugitive Control Plan	due 90 days after Permit Issuance for review and approval by the Commissioner. The plan shall identify all fugitive emission sources, primary and contingent control measures and practices, and records kept. The plan will include a statement of objectives, fugitive emission sources, operating and control measures, dust suppressant application description, corrective actions, training, and records. The Commissioner may require additions or changes to the Fugitive Emission Control Plan when granting approval. The Permittee will be given an opportunity to comment on any required additions or changes to the plan before the Commissioner grants approval of the plan.	Total Facility
Initial Computer Dispersion Modeling Results	due 365 days after Effective Date of Permit	Total Facility
Notification of the Actual Date of Initial Startup	due 15 days after Resuming Operation of Line 1 processing equipment. This is a state-only requirement and is not enforceable by the EPA administrator or citizens under the Clean Air Act.	Total Facility

**TABLE B: ONE TIME SUBMITTALS OR NOTIFICATIONS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

Operation and Maintenance Plan	due 120 days after Permit Issuance the Permittee shall provide an O&M plan for review and approval by the Commissioner. The O&M plan shall identify all air pollution control equipment, a preventative maintenance program for that equipment, description of corrective actions to be taken in the event of a malfunction or breakdown, description of the employee training program, and the records kept to demonstrate plan implementation. The Commissioner may require additions or changes to the O&M plan when granting approval. The Permittee will be given an opportunity to comment on any required additions or changes to the plan before the Commissioner grants approval of the plan. Upon MPCA approval, the O&M plan shall become an enforceable part of the permit.	Total Facility
Operation and Maintenance Plan	due 365 days after Permit Issuance the Permittee shall submit a Revised Operation and Maintenance Plan to include the parameter ranges that have been established for normal control equipment operation. Upon MPCA approval, the revised O&M plan shall become an enforceable part of the permit.	Total Facility
Performance Test Notification (written)	due 30 days before Performance Test	EU002, EU004, EU010, EU019, EU020, EU022, EU037, EU038, EU039, EU040, GP001, GP002, GP003, GP004, GP005
Performance Test Notification (written)	due 30 days before Performance Test	EU033, EU034, EU035
Performance Test Plan	due 30 days before Performance Test	EU002, EU004, EU010, EU019, EU020, EU022, EU037, EU038, EU039, EU040, GP001, GP002, GP003, GP004, GP005
Performance Test Plan	due 30 days before Performance Test	EU033, EU034, EU035
Performance Test Report - Microfiche Copy	due 105 days after Performance Test	EU002, EU004, EU010, EU019, EU020, EU022, EU037, EU038, EU039, EU040, GP001, GP002, GP003, GP004, GP005
Performance Test Report - Microfiche Copy	due 105 days after Performance Test	EU033, EU034, EU035
Performance Test Report	due 45 days after Performance Test	EU002, EU004, EU010, EU019, EU020, EU022, EU037, EU038, EU039, EU040, GP001, GP002, GP003, GP004, GP005
Performance Test Report	due 45 days after Performance Test	EU033, EU034, EU035

**TABLE B: RECURRENT SUBMITTALS**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

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 report of each calendar year covers January 1 - June 30. The second report of each calendar year covers July 1 - December 31.	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
Emissions 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.	Total Facility
Performance Test Notification (written)	due 30 days before end of each year following Resuming Operation of Line 1 (30 days before each performance test)	EU041
Performance Test Notification (written)	due 30 days before end of each year starting 12/31/1999 (30 days before each performance test)	EU036
Performance Test Plan	due 30 days before end of each year following Resuming Operation of Line 1 (30 days before each performance test)	EU041
Performance Test Plan	due 30 days before end of each year starting 12/31/1999 (30 days before each performance test)	EU036
Performance Test Report - Microfiche Copy	due 105 days after end of each year following Resuming Operation of Line 1 (105 days after each performance test)	EU041
Performance Test Report - Microfiche Copy	due 105 days after end of each year starting 12/31/1999 (105 days after each performance test)	EU036
Performance Test Report	due 45 days after end of each year following Resuming Operation of Line 1 (45 days after each performance test)	EU041
Performance Test Report	due 45 days after end of each year starting 12/31/1999 (45 days after each performance test)	EU036
Performance Test Notification (written)	due 30 days before end of each 36 months starting 12/31/2000 (30 days before each performance test)	EU042
Performance Test Plan	due 30 days before end of each 36 months starting 12/31/2000 (30 days before each performance test)	EU042
Performance Test Report - Microfiche Copy	due 105 days after end of each 36 months starting 12/31/2000 (105 days after each performance test)	EU042
Performance Test Report	due 45 days after end of each 36 months starting 12/31/2000 (45 days after each performance test)	EU042

**TABLE C: COMPLIANCE SCHEDULE**

02/23/00

Facility Name: EVTAC Mining - Plant

Permit Number: 13700113 - 001

Table C contains the compliance schedule as required by Minn. R. 7007.0500, subp. 2 (K). You must complete the actions required in Table C by the dates listed in the table. All submittals must be postmarked or received by the date specified in the table, and certified by a responsible official, defined in Minn. R. 7007.0100, subp. 21.

Subject Item: EU 041 Line 1 Pellet Cooler Exhaust

Associated Items: SV 047

Citation	Corrective Action	When to complete the action
Minn. R. 7011.0710, subp. 1(A)	Equipment Installation	due before Startup. The Permittee shall install air pollution control equipment to comply with Industrial Process Equipment Rule, Minn. R. 7011.0715, subp. 1(A). Line 1 was shut down in June, 1999. Within 90 days of the startup of the Line 1 pellet cooler after this shutdown, the Permittee shall demonstrate compliance with Minn. R. 7011.0715, subp. 1(A).
Minn. R. 7011.0710, subp. 1(A)	Initial Performance Test	due 90 days after Resuming Operation of Line 1 to measure PM emissions.
Minn. R. 7011.0710, subp. 1(A)	Performance Test Pre-test Meeting	due 7 days before Initial Performance Test

## APPENDIX B

### VISIBLE EMISSION CHECKLISTS

**Fairlane Plant Daily Fugitive Emissions Inspection**

**Fines Crusher Daily Stack Emissions Inspection**

**Concentrator Daily Stack Emissions Inspection**

**Pellet Plant Daily Stack Emissions Inspection**

## EVTAC Mining

### Fairlane Plant Daily Fugitive Emissions Inspection

Visual inspection of fugitive dust areas is to be recorded on day shift Saturday through Friday.

Record an "OK" if fugitive dust is not visible.

Record an "RA" if fugitive dust is visible and requires attention.

If "RA" is recorded, note the corrective action taken in the comments area. If unable to correct, note the reason why and notify the Environmental Engineer.

Record the temperature, wind direction and speed, weather conditions, date, time and initial each daily inspection.

At the end of each week, send completed inspection form to the Environmental Engineer to file.

FS	Service Area	Sat	Sun	Mon	Tue	Wed	Thu	Fri
001	Haul road to Basin 1							
001	Haul road to Basin 2							
001	Basin 1 dike and road							
001	Basin 2 dike and road							
002	Basin 1 beach							
002	Basin 2 beach							
004	Concentrate reclaim area							
005	Coarse ore surge pile							
012	Service roads							
014	Pellet reclaim area							
024	Pellet reclaim area							
029	Fine ore surge F9 belt to F10							
030	Fine ore surge 10 belt to pile							
031	21 belt to 21B belt							
032	Pellet loadout north conveyor							
033	Pellet loadout railcar loading							
	Temperature							
	Wind direction & speed							
	Weather conditions code*							
	Year _____ Date >>							
	Time							
	Initials							

\* Weather conditions codes: S-sunny; C-cloudy; P-partly cloudy; R-rain; Sn-snow; F-fog.

Corrective Actions/Comments:

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Date \_\_\_\_/\_\_\_\_/\_\_\_\_ Employee \_\_\_\_\_ # \_\_\_\_\_

## EVTAC Mining Fines Crusher Daily Stack Emissions Inspection

Visual inspection of each stack is to be recorded on day shift Saturday through Friday.

Record "OK" if equipment does not require attention.

Record "RA" if equipment requires attention to reduce visible emissions from the stack.

Record actions taken to remedy problems that require attention ("RA" items).

Record "Moist" if moisture plume limits visible emissions observations.

If the unit is down for more than one hour and the service area is active, notify the

Environmental Engineer with the following information: Unit number, time it went down, why it went down, and when it is expected to be operating again.

At the end of each week, send completed inspection form to Environmental Engineer to file.

EU	CE	SV	Sys #	Service Area	Sat	Sun	Mon	Tue	Wed	Thu	Fri
001	004	007	1	Crude ore unloading							
002	002	008	10A	Crude ore unloading							
002	005	009	10B	Crude ore unloading							
004	006	010	26	Coarse ore surge							
005	007	011	11	1C crusher							
006	008	012	12	2C crusher							
007	009	013	13	3C crusher							
008	010	014	14	4C crusher							
009	011	015	15	5C crusher							
010	001	016	21	3 <sup>rd</sup> stage bins							
011	012	017	2	1F crusher							
012	013	018	3	2F crusher							
013	014	019	4	3F crusher							
014	015	020	5	4F crusher							
015	016	021	5A	5F crusher							
016	017	022	17	6F crusher							
107	018	023	18	7F crusher							
018	019	024	19	8 F crusher							
019	024	025	20	4 <sup>th</sup> stage bins							
020	025	026	16	Transfer house (No)							
021	026	028	22	Transfer house (So)							
				Year                      Date >>>							
				Time							
				Initials							

Record corrective actions or comments for each "RA". Also record pressure drop and/or water pressure/flow for each unit that moisture plume interferes with the observation.

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Date \_\_\_\_/\_\_\_\_/\_\_\_\_ Employee \_\_\_\_\_ # \_\_\_\_\_



## EVTAC Mining

### Concentrator Daily Stack Emissions Inspection

Visual inspection of each stack is to be recorded on day shift Saturday through Friday.

Record "OK" if equipment does not require attention.

Record "RA" if equipment requires attention to reduce visible emissions from the stack.

Record actions taken to remedy problems that require attention ("RA" items).

Record "Moist" if moisture plume limits visible emissions observations.

If the unit is down for more than one hour and the service area is active, notify the Environmental

Engineer with the following information: Unit number, time it went down, why it went down,  
and when it is expected to be operating again.

At the end of each week, send completed inspection form to Environmental Engineer to file.

EU	CE	SV	Sys #	Service Area	Sat	Sun	Mon	Tue	Wed	Thu	Fri
023	027	029	7	#1 rod mill feed							
024	028	030	8	#2 rod mill feed							
025	029	031	22	#3 rod mill feed							
026	030	032	23	#4 rod mill feed							
027	031	033	24	#5 rod mill feed							
				Year ____ Date >>							
				Time							
				Initials							

Record corrective actions or comments for each "RA". Also record pressure drop and/or water pressure/flow for each unit that moisture plume interferes with the observation.

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Date \_\_\_\_/\_\_\_\_/\_\_\_\_ Employee \_\_\_\_\_ # \_\_\_\_\_

## EVTAC Mining

### Pellet Plant Daily Stack Emissions Inspection

Visual inspection of each stack is to be recorded on day shift Saturday through Friday.

Record "OK" if equipment does not require attention.

Record "RA" if equipment requires attention to reduce visible emissions from the stack.

Record actions taken to remedy problems that require attention ("RA" items).

Record "Moist" if moisture plume limits visible emissions observations.

If the unit is down for more than one hour and the service area is active, notify the Environmental

Engineer with the following information: Unit number, time it went down, why it went down,  
and when it is expected to be operating again.

At the end of each week, send completed inspection form to Environmental Engineer to file.

EU	CE	SV	Sys #	Service Area	Sat	Sun	Mon	Tue	Wed	Thu	Fri
028	051	034		Line 1 CaCO <sub>3</sub> (Bent)							
029	052	035		Line 1 Na <sub>2</sub> CO <sub>3</sub> & Binder							
030	043	036		Line 2 bentonite bins							
031	044	037		Line 2 bentonite addition							
032	058	038		Binder bins (soda ash)							
	057										
033	045	039		Line 2 grate feed							
034	046	040		Line 2 grate discharge							
035	047	041		Line 2 cooler discharge							
036	--	042		Line 2 cooler exhaust							
037	053	043		Line 1 grate feed							
038	054	044		Line 1 grate discharge							
039	055	045		Line 1 cooler discharge							
040	056	046		Line 1 induration							
041	--	047		Line 1 cooler exhaust							
042	050	048		East line 2 induration							
042	049	049		West line 2 induration							
035	033	050		L2 cooler dischg/v. feeder							
046	034	052		Line 2 pellet loadout							
047	--	053		Coal silo building							
048	--	054		Coal day bin							
057	041	057		Binder day bin air relief							
058	042	058		Binder addition							
035	060	070		Line 2 cooler discharge							
				Year _____ Date >>							
				Time _____							
				Initials _____							

Record corrective actions or comments for each "RA". Also record pressure drop and/or water pressure/flow for each unit that moisture plume interferes with the observation.

Date \_\_\_\_/\_\_\_\_/\_\_\_\_ Employee \_\_\_\_\_ # \_\_\_\_\_

# APPENDIX C

## **Inapplicable Requirements and Insignificant Activities**

## EVTAC Mining Inapplicable Requirements

1. 40 CFR 60, subpart D “Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction Is Commenced After August 17, 1971”
2. 40 CFR 60, subpart Da “Standards of Performance for Electric Utility Steam Generating Units for Which Construction Is Commenced After September 18, 1978”
3. 40 CFR 60, subpart Db “Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units”
4. 40 CFR 60, subpart Dc “Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units”
5. 40 CFR 60, subpart K “Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978”
6. 40 CFR 60, subpart Ka “Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984”
7. 40 CFR 60, subpart Kb “Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984”

## EVTAC Mining Insignificant Activities

SV	EU	Emission Unit Description	Basis
		Carpentry Shop (Plant Shop)	Minnesota Rules 7007.1300, subp.3, D(2)
		Laboratory	Minnesota Rules 7007.1300, subp.3, G
		Welding Equipment	Minnesota Rules 7007.1300, subp.3, H(4)
		Emergency Generators	MN Rules 7007.1300, subp.4
		Sandblaster (Plant Shop)	MN Rules 7007.1300, subp.4
		Storage Tank: 10,000 gal - Gasoline (Tank 15F)	MN Rules 7007.1300, subp.3, E(1)
		Storage Tank: 1,000,000 gal - Fuel Oil (Tank 1120)	MN Rules 7007.1300, subp.4
		Storage Tank: 1,000,000 gal - Fuel Oil (Tank 1121)	MN Rules 7007.1300, subp.4
053	047	Coal Silo Building	MN Rules 7007.1300, subp.3, I
054	048	Coal Day Bin 1	MN Rules 7007.1300, subp.3, I
059	059	Zinc Pot #1	MN Rules 7007.1300, subp.3, I
060	060	Zinc Pot #2	MN Rules 7007.1300, subp.3, I
061	061	Paint Booth (4 Paint Guns)	MN Rules 7007.1300, subp.3, I
063	063	Pellet Loadout Bin 3 Vent	MN Rules 7007.1300, subp.4
105	049	General Office Boiler	MN Rules 7007.1300, subp.4
106	050	Fairlane Office Boiler	MN Rules 7007.1300, subp.3, I
210	210	Space Heater (F.C. NW Corner)	MN Rules 7007.1300, subp.4
211	211	Space Heater (F.C. South Wall)	MN Rules 7007.1300, subp.4
212	212	Space Heater (F.C. by Freight Elevator)	MN Rules 7007.1300, subp.4
213	213	Space Heater (F.C. East Wall)	MN Rules 7007.1300, subp.4
214	214	Space Heater (F.C. SE Corner)	MN Rules 7007.1300, subp.4
216	216	Space Heater (Transfer House, By MCC Room)	MN Rules 7007.1300, subp.4
217	217	Space Heater (Transfer House, Center)	MN Rules 7007.1300, subp.4
218	218	Space Heater (Transfer House, SE Corner)	MN Rules 7007.1300, subp.4
219	219	Make-up Heater (Transfer House, West Wall)	MN Rules 7007.1300, subp.4
220	220	Space Heater (Pellet Plant, Cooler Sump)	MN Rules 7007.1300, subp.4
221	221	Space Heater (Pellet Plant, South Door)	MN Rules 7007.1300, subp.4
222	222	Space Heater (Pellet Plant, Conv 21A Head)	MN Rules 7007.1300, subp.4
223	223	Space Heater (Pellet Plant, Above CBSH-1)	MN Rules 7007.1300, subp.4
224	224	Space Heater (Coal Transfer, Take-up area)	MN Rules 7007.1300, subp.3, A
225	225	Space Heater (Coal Transfer, Silo Grade)	MN Rules 7007.1300, subp.4
226	226	Space Heater (Coal Transfer, Day Bin)	MN Rules 7007.1300, subp.4
227	227	Make-up Heater (Unloading Pocket, Penthouse)	MN Rules 7007.1300, subp.3, A
228	228	Space Heater (Unloading Pocket, MCC Room)	MN Rules 7007.1300, subp.3, A
229	229	Space Heater (Unloading Pocket, Pan Feeder Floor)	MN Rules 7007.1300, subp.3, A
230	230	Space Heater (Reel House, Top Floor)	MN Rules 7007.1300, subp.3, A
231	231	Space Heater (Reel House, Grade)	MN Rules 7007.1300, subp.3, A
232	232	Space Heater (Fines Crusher, South Door)	MN Rules 7007.1300, subp.3, A
233	233	Make-up Heater (Fines Crusher, SW Corner)	MN Rules 7007.1300, subp.3, A

## EVTAC Mining Insignificant Activities (Continued)

SV	EU	Emission Unit Description	Basis
234	234	Space Heater (Fines Crusher, SW Corner)	MN Rules 7007.1300, subp.3, A
235	235	Space Heater (Fines Crusher, South Wall)	MN Rules 7007.1300, subp.3, A
236	236	Make-up Heater (Fines Crusher, NW Corner)	MN Rules 7007.1300, subp.3, A
237	237	Space Heater (Fines Crusher, #2 Belt Elev)	MN Rules 7007.1300, subp.3, A
238	238	Space Heater (Fines Crusher, #1 Head Pulley)	MN Rules 7007.1300, subp.3, A
239	239	Space Heater (Fines Crusher, Tunnel Feed)	MN Rules 7007.1300, subp.3, A
240	240	Make-up Heater (Fines Crusher, Office Area)	MN Rules 7007.1300, subp.3, A
241	241	Space Heater (Fines Crusher, South MCC)	MN Rules 7007.1300, subp.3, A
242	242	Space Heater (Fines Crusher, #7 Conv)	MN Rules 7007.1300, subp.3, A
243	243	Space Heater (Coarse Ore Surge, South Wall)	MN Rules 7007.1300, subp.3, A
244	244	Make-up Heater (Coarse Ore Surge, West End Tunnel)	MN Rules 7007.1300, subp.3, A
245	245	Make-up Heater (Coarse Ore Surge, East End)	MN Rules 7007.1300, subp.3, A
246	246	Space Heater (Transfer House, 5C/9C Conv)	MN Rules 7007.1300, subp.3, A
247	247	Space Heater (Transfer House, North End)	MN Rules 7007.1300, subp.4
248	248	Make-up Heater (Transfer House, SE Corner)	MN Rules 7007.1300, subp.3, A
249	249	Space Heater (Transfer House, FO Surge MCC)	MN Rules 7007.1300, subp.3, A
250	250	Space Heater (Truck Shop, Steam Room)	MN Rules 7007.1300, subp.3, A
251	251	Space Heater (Truck Shop, Steam Jenny)	MN Rules 7007.1300, subp.3, A
252	252	Make-up Heater (Truck Shop, Maintenance)	MN Rules 7007.1300, subp.3, A
253	253	Space Heater (Maintenance Shops, Steam Jenny)	MN Rules 7007.1300, subp.3, A
254	254	Make-up Heater (Maintenance Shops, Make-ups)	MN Rules 7007.1300, subp.3, A
255	255	Space Heater (Rubber Shop, Shop)	MN Rules 7007.1300, subp.3, A
256	256	Space Heater (Rubber Shop, Shop)	MN Rules 7007.1300, subp.3, A
257	257	Space Heater (Line 1, Mexico, Service Tunnel)	MN Rules 7007.1300, subp.3, A
258	258	Space Heater (Line 1, Concentrator, West Door)	MN Rules 7007.1300, subp.3, A
259	259	Space Heater (Line 1, Concentrator, NW Corner)	MN Rules 7007.1300, subp.3, A
260	260	Space Heater (Line 1, Concentrator, L1 N Wall)	MN Rules 7007.1300, subp.3, A
261	261	Make-up Heater (Line 1, Concentrator, L1 Gallery)	MN Rules 7007.1300, subp.3, A
262	262	Space Heater (Line 1, Concentrator, L1 Hvolt MCC)	MN Rules 7007.1300, subp.3, A
263	263	Make-up Heater (Line 1, Concentrator, L2 Gallery)	MN Rules 7007.1300, subp.3, A
264	264	Space Heater (Line 1, Concentrator, L2 N Wall)	MN Rules 7007.1300, subp.3, A
265	265	Make-up Heater (Line 1, Concentrator, N Wall Col 23)	MN Rules 7007.1300, subp.3, A
266	266	Space Heater (Line 1, Concentrator, L2 Basement)	MN Rules 7007.1300, subp.3, A
267	267	Space Heater (Line 1, Concentrator, L1 Basement)	MN Rules 7007.1300, subp.3, A
268	268	Space Heater (Line 1, Concentrator, Above H-29)	MN Rules 7007.1300, subp.3, A
269	269	Space Heater (Line 1, Concentrator, South Repair Door)	MN Rules 7007.1300, subp.3, A
270	270	Space Heater (Line 1, Concentrator, Above Elec Shop)	MN Rules 7007.1300, subp.3, A
271	271	Space Heater (Line 1, Concentrator, Electric Shop)	MN Rules 7007.1300, subp.3, A
272	272	Space Heater (Line 1, Concentrator, W Warehouse)	MN Rules 7007.1300, subp.3, A
273	273	Space Heater (Line 1, Concentrator, N Warehouse)	MN Rules 7007.1300, subp.3, A

## EVTAC Mining

### Insignificant Activities (Continued)

SV	EU	Emission Unit Description	Basis
274	274	Space Heater (Line 1, Compressor Room, NE Wall)	MN Rules 7007.1300, subp.3, A
275	275	Space Heater (Line 1, Compressor Room, NW Wall)	MN Rules 7007.1300, subp.3, A
276	276	Space Heater (Line 1, Plant Offices, Pipe corr for Lab)	MN Rules 7007.1300, subp.3, A
277	277	Make-up Heater (Line 1, Main Dry, Utility Room)	MN Rules 7007.1300, subp.3, A
278	278	Make-up Heater (Line 2, Mexico, East End)	MN Rules 7007.1300, subp.3, A
279	279	Make-up Heater (Line 2, Mexico, Line 3)	MN Rules 7007.1300, subp.3, A
280	280	Make-up Heater (Line 2, Mexico, Line 4)	MN Rules 7007.1300, subp.3, A
281	281	Make-up Heater (Line 2, Mexico, Line 5)	MN Rules 7007.1300, subp.3, A
282	282	Space Heater (Line 2, Concentrator, L3 N Wall)	MN Rules 7007.1300, subp.3, A
283	283	Space Heater (Line 2, Concentrator, L4 N Wall)	MN Rules 7007.1300, subp.3, A
284	284	Space Heater (Line 2, Concentrator, L5 N Wall)	MN Rules 7007.1300, subp.3, A
285	285	Space Heater (Line 2, Concentrator, N Wall Ball Bins)	MN Rules 7007.1300, subp.3, A
286	286	Space Heater (Line 2, Concentrator, NE Corner)	MN Rules 7007.1300, subp.3, A
287	287	Space Heater (Line 2, Concentrator, East Doors)	MN Rules 7007.1300, subp.3, A
289	289	Space Heater (Line 2, Concentrator, Above Tails Pumps)	MN Rules 7007.1300, subp.3, A
290	290	Space Heater (Line 2, Concentrator, L5 S Wall)	MN Rules 7007.1300, subp.3, A
291	291	Space Heater (Line 2, Concentrator, L4 S Wall)	MN Rules 7007.1300, subp.3, A
292	292	Space Heater (Line 2, Concentrator, L3 S Wall)	MN Rules 7007.1300, subp.3, A
293	293	Space Heater (Line 2, Concentrator, South Door)	MN Rules 7007.1300, subp.3, A
294	294	Space Heater (Line 2, Concentrator, Near South Door)	MN Rules 7007.1300, subp.3, A
295	295	Space Heater (Line 2, Tailings Pocket, West Grade)	MN Rules 7007.1300, subp.3, A
296	296	Space Heater (Line 2, Tailings Pocket, East Grade)	MN Rules 7007.1300, subp.3, A
297	297	Space Heater (Line 2, Tailings Pocket, Top Floor)	MN Rules 7007.1300, subp.3, A
298	298	Space Heater (Line 2, Main Dry, Roof)	MN Rules 7007.1300, subp.3, A
299	299	Space Heater (Line 2, Main Dry, Roof Dry Exp)	MN Rules 7007.1300, subp.3, A
300	300	Space Heater (Line 1, Plant, Col U-10)	MN Rules 7007.1300, subp.3, A
301	301	Space Heater (Line 1, Plant, Col U-9)	MN Rules 7007.1300, subp.3, A
302	302	Space Heater (Line 1, Plant, Col T-9)	MN Rules 7007.1300, subp.3, A
303	303	Space Heater (Line 1, Plant, Col M-9)	MN Rules 7007.1300, subp.3, A
304	304	Space Heater (Line 1, Plant, Bentonite Tracks)	MN Rules 7007.1300, subp.3, A
305	305	Space Heater (Line 1, Plant, Conc Loadout)	MN Rules 7007.1300, subp.3, A
306	306	Space Heater (Line 1, Plant, Col M-1a)	MN Rules 7007.1300, subp.3, A
307	307	Space Heater (Line 1, Plant, Col J-1a)	MN Rules 7007.1300, subp.3, A
308	308	Space Heater (Line 1, Plant, Col A-1a)	MN Rules 7007.1300, subp.3, A
309	309	Space Heater (Line 1, Plant, Col A-3)	MN Rules 7007.1300, subp.3, A
310	310	Space Heater (Line 1, Plant, Col B-7)	MN Rules 7007.1300, subp.3, A
311	311	Space Heater (Line 1, Plant, Col A-9)	MN Rules 7007.1300, subp.3, A
312	312	Space Heater (Line 1, Plant, Col F-10)	MN Rules 7007.1300, subp.3, A
313	313	Space Heater (Line 1, Plant, Col F-14)	MN Rules 7007.1300, subp.3, A
314	314	Space Heater (Line 1, Plant, AT Filter Control)	MN Rules 7007.1300, subp.3, A

## EVTAC Mining

### Insignificant Activities (Continued)

SV	EU	Emission Unit Description	Basis
315	315	Space Heater (Line 1, Plant, Col A1-14)	MN Rules 7007.1300, subp.3, A
316	316	Space Heater (Line 1, Plant, Col A1-13)	MN Rules 7007.1300, subp.3, A
317	317	Space Heater (Line 1, Plant, Col A1-16)	MN Rules 7007.1300, subp.3, A
318	318	Space Heater (Line 1, Plant, Col A1-19)	MN Rules 7007.1300, subp.3, A
319	319	Space Heater (Line 1, Plant, Col B1-19 Filters)	MN Rules 7007.1300, subp.3, A
320	320	Space Heater (Line 1, Plant, Col B1-19 Grade)	MN Rules 7007.1300, subp.3, A
321	321	Space Heater (Line 1, Plant, Col B1-20 Grade)	MN Rules 7007.1300, subp.3, A
322	322	Space Heater (Line 1, Plant, Col B1-22 Grade)	MN Rules 7007.1300, subp.3, A
323	323	Space Heater (Line 1, Plant, Grade SE Corner)	MN Rules 7007.1300, subp.3, A
324	324	Space Heater (Line 1, Plant, Col F-24 Grade)	MN Rules 7007.1300, subp.3, A
325	325	Space Heater (Line 1, Plant, Col F-24 Firing FI)	MN Rules 7007.1300, subp.3, A
326	326	Space Heater (Line 1, Plant, Col M1-24 Grade)	MN Rules 7007.1300, subp.3, A
327	327	Space Heater (Line 1, Plant, Col T-24 Firing FI)	MN Rules 7007.1300, subp.3, A
328	328	Space Heater (Line 1, Plant, Col T-22 Grade)	MN Rules 7007.1300, subp.3, A
329	329	Space Heater (Line 1, Plant, Conc #31)	MN Rules 7007.1300, subp.3, A
330	330	Space Heater (Line 1, Plant, Below #8 Thk)	MN Rules 7007.1300, subp.3, A
331	331	Space Heater (Line 1, Plant, Below #8 Thk)	MN Rules 7007.1300, subp.3, A
332	332	Space Heater (Line 1, Plant, Feed End MCC)	MN Rules 7007.1300, subp.3, A
333	333	Space Heater (Line 1, Plant, Discharge End MCC)	MN Rules 7007.1300, subp.3, A
334	334	Space Heater (Line 1, Plant, Inside Conc Reclaim)	MN Rules 7007.1300, subp.3, A
335	335	Space Heater (Line 2, Plant, N of Conv 21A Head)	MN Rules 7007.1300, subp.3, A
336	336	Space Heater (Line 2, Plant, Firing FI)	MN Rules 7007.1300, subp.3, A
337	337	Space Heater (Line 2, Plant, S of Frt Elev)	MN Rules 7007.1300, subp.3, A
338	338	Space Heater (Line 2, Plant, N of Frt Elev)	MN Rules 7007.1300, subp.3, A
339	339	Space Heater (Line 2, Plant, Col N'-18)	MN Rules 7007.1300, subp.3, A
340	340	Space Heater (Line 2, Plant, Col N'-13)	MN Rules 7007.1300, subp.3, A
341	341	Space Heater (Line 2, Plant, Col N'-12)	MN Rules 7007.1300, subp.3, A
342	342	Space Heater (Line 2, Plant, Col R'b Grate FI)	MN Rules 7007.1300, subp.3, A
343	343	Space Heater (Line 2, Plant, Col T'-10)	MN Rules 7007.1300, subp.3, A
344	344	Space Heater (Line 2, Plant, W Wall Tin Shop)	MN Rules 7007.1300, subp.3, A
345	345	Space Heater (Line 2, Plant, Tin Shop Doors)	MN Rules 7007.1300, subp.3, A
346	346	Space Heater (Line 2, Plant, Col M'-1a Bin Feed)	MN Rules 7007.1300, subp.3, A
347	347	Space Heater (Line 2, Plant, M' above Tin Shop)	MN Rules 7007.1300, subp.3, A
348	348	Space Heater (Line 2, Plant, E above Tin Shop)	MN Rules 7007.1300, subp.3, A
349	349	Space Heater (Line 2, Plant, Col G'-1a Balling)	MN Rules 7007.1300, subp.3, A
350	350	Make-up Heater (Line 2, Pellet Loadout, Inside Turnover)	MN Rules 7007.1300, subp.3, A
351	351	Make-up Heater (L.2, Pellet Loadout, N Wall Turnover)	MN Rules 7007.1300, subp.3, A
352	352	Make-up Heater (Line 2, Pellet Loadout, S Wall Turnover)	MN Rules 7007.1300, subp.3, A
353	353	Space Heater (Line 2, Pellet Loadout, S End T/ Bins)	MN Rules 7007.1300, subp.3, A
354	354	Space Heater (Line 2, Pellet Loadout, N End T/ Bins)	MN Rules 7007.1300, subp.3, A



## EVTAC Mining

### Insignificant Activities (Continued)

SV	EU	Emission Unit Description	Basis
355	355	Make-up Heater (Line 2, Pellet Loadout, Above N End)	MN Rules 7007.1300, subp.3, A
356	356	Space Heater (Line 2, Coal Handling, Unloading)	MN Rules 7007.1300, subp.3, A
357	357	Space Heater (Line 2, Coal Handling, Unloading Pit)	MN Rules 7007.1300, subp.3, A
358	358	Space Heater (Line 2, Coal Handling, T/ Silo)	MN Rules 7007.1300, subp.4
359	359	Space Heater (Line 2, Coal Handling, N of Silo Grade)	MN Rules 7007.1300, subp.3, A
360	360	Space Heater (Line 2, Fuel Handling, Pump House)	MN Rules 7007.1300, subp.4
361	361	Space Heater (Fines Crusher, Temporary)	MN Rules 7007.1300, subp.3, A
362	362	Space Heater (Fines Crusher, Temporary)	MN Rules 7007.1300, subp.3, A
363	363	Space Heater (Pellet Loadout, Temporary)	MN Rules 7007.1300, subp.3, A
364	364	Space Heater (Pellet Loadout, Temporary)	MN Rules 7007.1300, subp.3, A
365	365	Boiler (Line 2, Concentrator, Repair Bay)	MN Rules 7007.1300, subp.4
288	288	Space Heater (Line 2, Concentrator, Tails Pumps)	MN Rules 7007.1300, subp.3, I
<b>The following are associated with fugitive sources (FS):</b>			
FS	Fugitive Source Description		Basis
003	Wind Erosion - Pellet Stockpiles		MN Rules 7007.1300, subp.3, I
007	Coal Unload		MN Rules 7007.1300, subp.3, I
008	Wind Erosion - Coal Stockpile		MN Rules 7007.1300, subp.3, I
009	Concentrate Reclaim - pocket to pile 7 (FEL)		MN Rules 7007.1300, subp.3, I
010	Pellet Reclaim - pile 2 to grizzly (FEL)		MN Rules 7007.1300, subp.3, I
011	Chips/Sinter Reclaim - pile 9 to screen (FEL)		MN Rules 7007.1300, subp.3, I
013	Pellet Reclaim – screening		MN Rules 7007.1300, subp.3, I
015	Wind Erosion - Coarse Ore Surge Stockpile		MN Rules 7007.1300, subp.3, I
016	Concentrate Reclaim - pile 7 to hopper (FEL)		MN Rules 7007.1300, subp.3, I
017	Concentrate Reclaim - hopper to screen		MN Rules 7007.1300, subp.3, I
018	Concentrate Reclaim – screening		MN Rules 7007.1300, subp.3, I
019	Contam. Conc. Reclaim - pile to pile (FEL)		MN Rules 7007.1300, subp.3, I
020	Contam. Conc. Reclaim - pile to hopper (FEL)		MN Rules 7007.1300, subp.3, I
021	Contam. Conc. Reclaim – screening		MN Rules 7007.1300, subp.3, I
022	Sinter Reclaim - pile 10 to 6 (FEL)		MN Rules 7007.1300, subp.3, I
023	Sinter Reclaim - pile 6 to railcar (FEL)		MN Rules 7007.1300, subp.3, I
025	Pellet Reclaim - screen to sinter pile 9 (FEL)		MN Rules 7007.1300, subp.3, I
026	Concentrate Reclaim - conveyor transfers		MN Rules 7007.1300, subp.3, I
027	Line 1 chunks transfer (pan feeder to pocket)		MN Rules 7007.1300, subp.3, I
028	Line 2 chunks transfer (pan feeder to pocket)		MN Rules 7007.1300, subp.3, I
034	Conveyor 2C discharge transfer point		MN Rules 7007.1300, subp. 4
036	Conveyor 3A discharge transfer point		MN Rules 7007.1300, subp. 4
037	Conveyor 3C discharge transfer point		MN Rules 7007.1300, subp. 4
038	Conveyor 3D discharge transfer point		MN Rules 7007.1300, subp. 4
039	Conveyor 3E discharge transfer point		MN Rules 7007.1300, subp. 4
040	Conveyor 3F discharge transfer point		MN Rules 7007.1300, subp. 4
	Temporary Conveyor discharge transfer		MN Rules 7007.1300, subp. 4

**TECHNICAL SUPPORT DOCUMENT FOR  
AIR EMISSION PERMIT NO. 13700113-001**

This Technical Support Document (TSD) is for all the interested parties of the permit. The purpose of this document is to set forth the legal and factual basis for the permit conditions, including references to the applicable statutory or regulatory provisions.

**1. General Information**

**1.1. Applicant and Stationary Source Location**

<b>Owner and Operator Address and Phone Number</b>	<b>Facility Address (SIC Code: 1011 / Iron Ores)</b>
Eveleth Mines, LLC P.O. Box 180 Eveleth, Minnesota 55734 (218) 744-7849 (Brad Anderson, Env. Affairs Supervisor)	EVTAC Mining - Plant Highway 16 Forbes, Minnesota 55738 County: St. Louis

**1.2. Description of the facility**

At this facility, EVTAC Mining, LLC (Permittee) processes ore obtained from the nearby Thunderbird Mine (officially, EVTAC Mining - Mine), a separate air emission facility also owned and operated by the Permittee, and ships taconite pellets as its final product. Processing steps include crushing and grinding, concentration, pelletizing (agglomerating and indurating), and materials (ore, fuels, additives, product, and tailings) handling/storage /transport. Facility repair and maintenance is a supporting activity worth noting.

**1.3. Facility Emissions**

Table 1 is a summary of Potential to Emit rates in tons per year attributable to the facility. An emission summary is attached to the TSD. The emission summary is based on the calculations provided by Permittee in the revised application submitted on December 15, 1997, and corrections made in subsequent communication. Some of the calculations were revised based on MPCA review to be consistent with emissions estimated for similar sources at other taconite mining and processing facilities.

**Table 1. Total Facility Potential to Emit Summary**

<b>Pollutant</b>	<b>Potential to Emit* (tons/year)</b>	<b>Attainment/Unclassified?</b>
Particulate matter (PM)	3372	Not Applied
Particulate matter $\leq 10 \mu\text{m}$ (PM <sub>10</sub> )	2463	Yes
Sulfur dioxide	5700	Yes
Nitrogen oxides (NO <sub>x</sub> )	15985	Yes
Volatile organic compounds (VOC)	315	Yes
Carbon monoxide (CO)	323	Yes
Lead (Pb)	< 0.035 <sup>†</sup>	Yes
Hazardous air pollutants (Total)	< 2.72 <sup>†</sup>	Not Applied

\* The listed Potential to Emit (PTE) values are the PTE as limited by the permit.

<sup>†</sup> These values are based on the background information for ongoing taconite MACT as of 10/18/1999.

Table 2 indicates the facility's stationary source category with respect to different air quality permit programs.

**Table 2. Facility (TF) and Permit Classification**

<b>Classification (put x in appropriate box)</b>	<b>Major</b>	<b>Synthetic Minor*</b>	<b>Minor*</b>	<b>N/A</b>
PSD	X			
NAAR (list pollutant)				X
Part 70 Permit Program	X			

\* 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

The permit is organized into a cover page section, Tables A, B, and C. The cover page section has four pages and contains the Permittee's name and address and other standard requirements. Table A contains the emission limits and requirements of the permit. Table A is further broken down into three subparts which organizes the emission limits and requirements at different levels. The levels are the entire Facility (FC), Group (GP) of emission units or fugitive sources, and Emission Units (EU) that are not included in the GP. Table 3, below, is a summary of the requirements for affected units (GP and EU) in the permit's Table A.

Table B contains the submittal requirements of the permit, which include notifications and air quality dispersion modeling. Table C contains compliance schedule for correcting noncompliance expected to exist on and after the effective date of the permit.

**Table 3. Summary of Requirements in Permit's Table A for Affected Units**

<b>Citation</b>	<b>Regulation</b>	<b>Affected Units*</b>
Minn. R. 7007.0800	(MPCA AQD) Permit content – emission monitoring and other requirements	GP 1-5, 50; EU 1, 2, 4, 10, 19-20, 22, 28-35, 37-40, 42, 44, 46, 57, and 58
Minn. R. 7011.0510	Standards of performance for existing indirect heating equipment	GP 6
Minn. R. 7011.0610	Standards of performance for fossil-fuel-burning direct heating equipment	EU 40 and 42
Minn. R. 7011.0710	Standards of performance for pre-1969 industrial process equipment	GP 2, 4; EU 1, 28, 37-39, and 41
Minn. R. 7011.0715	Standards of performance for post-1969 industrial process equipment	GP 1, 3, 5; EU 2, 4, 10, 19, 20, 22, 29-36, 44, 46, 57, and 58
Minn. R. ch. 7017	(MPCA AQD) Monitoring and testing requirements	GP 1-5; EU 1, 2, 4, 10, 19-20, 22, 33-42, 44, and 46

\* Groups (GP), defined in the permit, consist of either Emission Units (EU) or fugitive sources (FS). Their use simplifies presentation of requirements. The Groups can be redefined in subsequent permit actions to improve presentation of requirements.

### **3. Conclusion**

Based on the information provided by Eveleth Mines, LLC, the MPCA has reasonable assurance that the operation of the emission facility, as described in the Air Emission Permit No. 13700113-001, and this TSD, will not cause or contribute to a violation of applicable federal regulations and Minnesota Rules.

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Staff Members on Permit Team:

Hongming Jiang, Bob Beresford, Stuart Arkley, Dennis Becker.

Attachments:

Emission summary submitted by Permittee and corrected by Hongming Jiang