

AIR EMISSION PERMIT NO. 02700022- 002

IS ISSUED TO

Busch Agricultural Resources, Inc.

BUSCH AGRICULTURAL RESOURCES - MOORHEAD

2101 26th Street South
Moorhead, Clay County, MN 56560

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	Action Number	Application Date	Issue Date
Total Facility Operating Permit	001	04/28/1995	10/8/2002
Major Amendment		03/05/2001	
Major Amendment	002	02/14/2003	See below

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

Permit Type: Federal; Part 70/Limits to Avoid NSR

Issue Date: August 6, 2003

Expiration: October 8, 2007

All Title I Conditions do not expire.

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

for Sheryl A. Corrigan
Commissioner
Minnesota Pollution Control Agency

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NOTICE TO THE PERMITTEE:

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

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

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

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

PERMIT SHIELD:

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

FACILITY DESCRIPTION:

Busch Agricultural Resources, Inc. (BARI) operates a barley malting plant in Moorhead, Minnesota. The barley is received, cleaned, graded, and stored in the silos. As needed, the barley is removed from the silos, conveyed to the steep house and loaded into the steep tanks. After 48 hours, the barley is transferred from the steep tanks into the germination compartments where it germinates for four days. The sprouted barley (green malt) is then transferred to the upper deck of a double deck kiln, dried for 12 to 24 hours, then dropped into the lower deck and dried for an additional 12 to 24 hours. The kiln is steam heated. Sulfur is used to introduce Sulfur Dioxide (SO₂) during the low heat phase of the kilning. The dried malt is cleaned and stored for a minimum of 28 days for aging. The malt is cleaned a second time just before loading into rail cars for shipping.

Emissions at the facility consist of particulate matter from grain handling and malt processing, SO₂ emissions from the kilns, and combustion products from the boilers and diesel generators. All grain and malt handling, with the exception of the kilns, is controlled with fabric filter baghouses.

The facility is a major source under federal Prevention of Significant Deterioration (PSD, 40 CFR § 52.21) and the Title V permit program (40 CFR § 70.2).

MAJOR AMENDMENT DESCRIPTION:

This permit amendment increases an existing Title I Condition (listed under GP 001 DC-400 Equipment) for the allowable “**total cleaned and graded barley**” limit of 200,000 tons/year to 250,000 tons/year.

The Permittee requested that the existing Title I Condition (listed under GP 001 DC-400 Equipment) for the allowable “**cleaned and graded barley shipped as export barley**” limit of 27,315 tons/year be removed, as this process is not affected by the barley cleaning equipment, and that there is no physical or design limitation that would prevent this facility from increasing the amount of export barley. Upon review of the “potential de-bottlenecking analysis” document associated with the permit action number 1258A-01-I/O-01, and discussing with the Permittee, the MPCA staff conclude that the above-mentioned limit is considered meaningless. Hence, the limit for cleaned and graded barley shipped as export barley is eliminated from this permit.

In order to satisfy the Compliance Assurance Monitoring (CAM – 40 CFR Part 64) for the fabric filter (CE 009) in this permit, a new requirement to monitor and recordkeeping of Visible Emissions is added to this permit.

This permit does not authorize any additional emission units.

Administrative Amendment Request – This permit amendment incorporates revisions to EU 071 (Boiler #2) limit basis and recordkeeping requirement. The Permittee requested that steam generated be recorded by an hourly log, each hour, instead of the 8-hour rolling average. Hence, this permit is amended to monitor steam generated on an hourly basis and to keep those hourly steam records.

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead
 Permit Number: 02700022 - 002

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

Subject Item:	Total Facility
What to do	Why to do it
FACILITY-SPECIFIC REQUIREMENTS	hdr
The Permittee shall clean up commodities spilled on the driveway and other facility property as required to minimize fugitive emissions to a level consistent with RACT (reasonably available control technology).	Minn. R. 7011.1005, subp. 1(A)
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. 7011.1015; Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 16(J)
No owner or operator of a dry bulk agricultural commodity facility may operate or maintain a facility that creates a public nuisance. If the commissioner of the MPCA determines that operation or maintenance of the commodity facility creates a public nuisance, the owner or operator may be required to take measures necessary to eliminate the nuisance.	Minn. R. 7011.1010
REQUIREMENTS APPLICABLE TO ALL FACILITIES	hdr
Circumvention: Do not install or use a device or means that conceals or dilutes emissions, which would otherwise violate a federal or state air pollution control rule, without reducing the total amount of pollutant emitted.	Minn. R. 7011.0020
Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment. At a minimum, the O & M plan shall identify all air pollution control equipment and shall include a preventative maintenance program for that equipment, a description of (the minimum but not necessarily the only) corrective actions to be taken to restore the equipment to proper operation to meet applicable permit conditions, a description of the employee training program for proper operation and maintenance of the control equipment, and the records kept to demonstrate plan implementation.	Minn. R. 7007.0800, subp. 14 and Minn. R. 7007.0800, subp. 16(J)
Operation Changes: In any shutdown, breakdown, or deviation the Permittee shall immediately take all practical steps to modify operations to reduce the emission of any regulated air pollutant. The Commissioner may require feasible and practical modifications in the operation to reduce emissions of air pollutants. No emissions units that have an unreasonable shutdown or breakdown frequency of process or control equipment shall be permitted to operate.	Minn. R. 7019.1000, subp. 4
Fugitive Emissions: Do not cause or permit the handling, use, transporting, or storage of any material in a manner which may allow avoidable amounts of particulate matter to become airborne. Comply with all other requirements listed in Minn. R. 7011.0150.	Minn. R. 7011.0150
Noise: The Permittee shall comply with the noise standards set forth in Minn. R. 7030.0010 to 7030.0080 at all times during the operation of any emission units. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. R. 7030.0010 - 7030.0080
Inspections: The Permittee shall comply with the inspection procedures and requirements as found in Minn. R. 7007.0800, subp. 9(A).	Minn. R. 7007.0800, subp. 9(A)
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in Tables A, B, and/or C.	Minn. R. ch. 7017
Limits set as a result of a performance test (conducted before or after permit issuance) apply until superseded as specified by Minn. R. 7017.2025 following formal review of a subsequent performance test on the same unit.	Minn. R. 7017.2025
Monitoring Equipment Calibration: Annually calibrate all required monitoring equipment (any requirements applying to continuous emission monitors are listed separately in this permit).	Minn. R. 7007.0800, subp. 4(D)
Operation of Monitoring Equipment: Unless otherwise noted in Tables A, B, and/or C, monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown, or during checks of the monitoring systems, such as calibration checks and zero and span adjustments. If monitoring records are required, they should reflect any such periods of process shutdown or checks of the monitoring system.	Minn. R. 7007.0800, subp. 4(D)

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

<p>Record keeping: Retain all records at the stationary source for a period of five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A).</p>	<p>Minn. R. 7007.0800, subp. 5(C)</p>
<p>Recordkeeping: Maintain records describing any insignificant modifications (as required by Minn. R. 7007.1250, subp. 3) or changes contravening permit terms (as required by Minn. R. 7007.1350 subp. 2), including records of the emissions resulting from those changes.</p>	<p>Minn. R. 7007.0800, subp. 5(B)</p>
<p>Shutdown Notifications: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. If the owner or operator does not have advance knowledge of the shutdown, notification shall be made to the Commissioner as soon as possible after the shutdown. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 3.</p> <p>At the time of notification, the owner or operator shall inform the Commissioner of the cause of the shutdown and the estimated duration. The owner or operator shall notify the Commissioner when the shutdown is over.</p>	<p>Minn. R. 7019.1000, subp. 3</p>
<p>Breakdown Notifications: Notify the Commissioner within 24 hours of a breakdown of more than one hour duration of any control equipment or process equipment if the breakdown causes any increase in the emissions of any regulated air pollutant. The 24-hour time period starts when the breakdown was discovered or reasonably should have been discovered by the owner or operator. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 2.</p> <p>At the time of notification or as soon as possible thereafter, the owner or operator shall inform the Commissioner of the cause of the breakdown and the estimated duration. The owner or operator shall notify the Commissioner when the breakdown is over.</p>	<p>Minn. R. 7019.1000, subp. 2</p>
<p>Notification of Deviations Endangering Human Health or the Environment: As soon as possible after discovery, notify the Commissioner or the state duty officer, either orally or by facsimile, of any deviation from permit conditions which could endanger human health or the environment.</p>	<p>Minn. R. 7019.1000, subp. 1</p>
<p>Notification of Deviations Endangering Human Health or the Environment Report: Within 2 working days of discovery, notify the Commissioner in writing of any deviation from permit conditions which could endanger human health or the environment. Include the following information in this written description:</p> <ol style="list-style-type: none"> 1. the cause of the deviation; 2. the exact dates of the period of the deviation, if the deviation has been corrected; 3. whether or not the deviation has been corrected; 4. the anticipated time by which the deviation is expected to be corrected, if not yet corrected; and 5. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation. 	<p>Minn. R. 7019.1000, subp. 1</p>
<p>Application for Permit Amendment: If a permit amendment is needed, submit an application in accordance with the requirements of Minn. R. 7007.1150 through Minn. R. 7007.1500. Submittal dates vary, depending on the type of amendment needed.</p>	<p>Minn. R. 7007.1150 through Minn. R. 7007.1500</p>
<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>	<p>Minn. R. 7007.1400, subp. 1(H)</p>
<p>Emission Inventory Report: due 91 days after end of each calendar year following permit issuance (April 1). To be submitted on a form approved by the Commissioner.</p>	<p>Minn. R. 7019.3000 through Minn. R. 7019.3010</p>
<p>Emission Fees: due 60 days after receipt of an MPCA bill.</p>	<p>Minn. R. 7002.0005 through Minn. R. 7002.0095</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: GP 001 DC-400 Equipment

- Associated Items:** CE 009 Fabric Filter - Low Temperature, i.e., T<180 Degrees F
 EU 011 Debearder Garner 21-326-2/Feed Barley 1 (FB1)
 EU 012 Feed Barley Screw Conveyor 21-330
 EU 013 Grade A/B/C Bin 21-326-3
 EU 014 Grade A/B/C Bin 21-326-1
 EU 025 Feed Barley Bin 20-306
 EU 026 Seed and Screenings Bin 20-304
 EU 074 Conveyor 21-336
 EU 076 Conveyor 21-330A
 EU 078 Grain Cleaner 503 21-329-1
 EU 079 Grain Cleaner 504 21-329-2
 EU 080 Separator 505 21-324-1ABC
 EU 081 Separator 506 21-324-1DEF
 EU 082 Separator 507 21-324-2ABC
 EU 083 Separator 508 21-324-2DEF
 EU 084 Grader 509
 EU 085 Grader 510
 EU 086 Conveyor 21-337
 SV 004 DC-400 (CE009) Exhaust

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.01 grains/dry standard cubic foot . This limit applies to each individual unit listed in GP001. The limit is equivalent to approximately 3.23 lb/hour at maximum exhaust capacity. Assuming 99% control, calculated potential emissions are approximately 0.51 lb/hour.	40 CFR Section 60.302(b)(1); Minn. R. 7011.1005, subp. 2
Opacity: less than or equal to 0 percent opacity from the control device (CE009)	40 CFR Section 60.302(b)(2); Minn. R. 7011.1005, subp. 2
Opacity: less than or equal to 0 percent opacity - fugitive emissions	40 CFR Section 60.302(c)(2); Minn. R. 7011.1005, subp. 2
OPERATING REQUIREMENTS	hdr
Process Throughput: less than or equal to 250000 tons/year using 12-month Rolling Sum (total cleaned and graded barley) to be calculated by the 15th day of each month for the previous 12-month period as described later in this permit. All emission units or stacks added to GP001 as allowed in this permit shall be included in this calculation.	Title I Condition: To avoid classification of previous modification as major under 40 CFR Section 52.21 and Minn. R. 7007.3000
Total Particulate Matter: greater than or equal to 99 percent collection efficiency	Minn. Stat. 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14 (data used to calculate PTE)
Particulate Matter < 10 micron: greater than or equal to 99 percent collection efficiency	Minn. Stat. 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14 (data used to calculate PTE)
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 10 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 2 and 14; Also meets requirements under 40 CFR Part 64
Visible Emissions: The Permittee shall check the fabric filter stack (SV 004) for any visible emissions once each day of operation during daylight hours. During inclement weather, the Permittee shall read and record the pressure drop across the fabric filter, once each day of operation.	Minn. R. 7007.0800, subp. 4 and 5; Also meets requirements under 40 CFR Part 64
RECORDKEEPING REQUIREMENTS	hdr

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

<p>Monthly Recordkeeping - Total Cleaned and Graded Barley: By the 15th day of each month, the Permittee shall calculate and record the following:</p> <ol style="list-style-type: none"> 1. The total cleaned and graded barley processed for the previous calendar month. This shall be based on grain receipt records and processing logs. 2. The 12-month rolling sum of the total cleaned and graded barley for the previous 12 month period by summing the monthly total cleaned and graded barley for the previous 12 months. 	Minn. R. 7007.0800, subp. 4 and 5
<p>Recordkeeping of Pressure Drop and Visible Emissions: The Permittee shall record the time and date of each pressure drop reading and visible emission inspection, and whether or not the observed pressure drop was within the range specified in this permit, and whether or not any visible emissions were observed.</p>	Minn. R. 7007.0800, subp. 4 and 5; Minn. R. 7011.0080
<p>Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.</p>	Minn. R. 7007.0800, subp. 4, 5 and 14
<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur:</p> <ul style="list-style-type: none"> - the recorded pressure drop is outside the required operating range; or - visible emissions are observed; or - the fabric filter or any of its components are found during the inspections to need repair. <p>Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.</p>	Minn. R. 7007.0800, subp. 4, 5, and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: GP 002 DC-100 Equipment

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

EU 001 Barley Unloading

EU 067 By-Product Loadout

SV 001 DC-100 (CE001) Exhaust

What to do	Why to do it
EMISSION LIMITS	hdr
Opacity: less than or equal to 10 percent opacity from control device (CE001)	Minn. R. 7011.1005, subp. 3(D)
Opacity: less than or equal to 5 percent opacity (fugitive) from a truck or railcar unloading station or a railcar loading station.	Minn. R. 7011.1005, subp. 3(A)
Opacity: less than or equal to 10 percent opacity (fugitive) from a truck loading station	Minn. R. 7011.1005, subp. 3(B)
OPERATING REQUIREMENTS	hdr
Total Particulate Matter: greater than or equal to 80 percent collection efficiency by weight (fabric filter is typically 99% efficient)	Minn. R. 7011.1005, subp. 3(E)
Particulate Matter < 10 micron: greater than or equal to 80 percent collection efficiency by weight (fabric filter is typically 99% efficient)	Minn. R. 7011.1005, subp. 3(E)
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 10 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 2 and 14
RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading, and whether or not the observed pressure drop was within the range specified in this permit	Minn. R. 7007.0800, subp. 4 and 5; Minn. R. 7011.0080
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: GP 003 DC-200 Equipment

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

- EU 002 Drag Conveyor 19-205
- EU 003 Elevator 19-208
- EU 015 Screw Conveyor 25-402-2
- EU 018 Belt Conveyor 25-401-1
- EU 019 Belt Conveyor 25-401-2
- EU 020 Belt Conveyor 25-401-3
- EU 021 Drag Conveyor 25-406-1
- EU 022 Drag Conveyor 25-406-2
- EU 023 Drag Conveyor 25-406-3
- EU 027 Screw Conveyor 20-308
- EU 042 Conveyor 24-702-1
- EU 043 Conveyor 24-702-2
- EU 044 Conveyor 24-702-3
- EU 045 Conveyor 24-702-4
- EU 046 Drag Conveyor 24-703
- EU 047 Drag Conveyor 24-704
- EU 048 Screw Conveyor 24-705
- EU 049 Screw Conveyor 25-402-1
- EU 055 Weigh Scale 26-815
- EU 059 Malt Bin 27-906-1
- EU 060 Malt Loadout Drag Conveyor 27-904
- EU 061 Malt Loadout Drag Conveyor 27-902
- EU 062 Sprouts Bin 27-906-2
- EU 063 Screw Conveyor 27-903
- EU 075 Conveyor 21-335
- EU 077 Conveyor 26-816
- SV 002 DC-200 (CE002) Exhaust

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.01 grains/dry standard cubic foot . This limit applies to each individual unit listed in GP003. The limit is equivalent to approximately 3.23 lb/hour at maximum exhaust capacity. Assuming 99% control, calculated potential emissions are approximately 0.41 lb/hour.	40 CFR Section 60.302(b)(1); Minn. R. 7011.1005, subp. 2
Opacity: less than or equal to 0 percent opacity from the control device (CE002)	40 CFR Section 60.302(b)(2); Minn. R. 7011.1005, subp. 2
Opacity: less than or equal to 0 percent opacity - fugitive emissions	40 CFR Section 60.302(c)(2); Minn. R. 7011.1005, subp. 2
OPERATING REQUIREMENTS	hdr
Total Particulate Matter: greater than or equal to 99 percent collection efficiency	Minn. Stat. 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14 (data used to calculate PTE)
Particulate Matter < 10 micron: greater than or equal to 99 percent collection efficiency	Minn. Stat. 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14 (data used to calculate PTE)
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 10 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 2 and 14
RECORDKEEPING REQUIREMENTS	hdr

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading, and whether or not the observed pressure drop was within the range specified in this permit	Minn. R. 7007.0800, subp. 4 and 5; Minn. R. 7011.0080
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead
 Permit Number: 02700022 - 002

Subject Item: GP 004 DC-300A Equipment

Associated Items: CE 003 Fabric Filter - Low Temperature, i.e., T<180 Degrees F
 EU 004 Raw Barley Garner 21-302
 EU 016 Elevator 21-304
 EU 017 Barley Storage Silos (48)
 EU 024 Weigh Belt 22-558
 EU 028 Steep Garner 22-549-1
 EU 029 Steep Garner 22-549-2
 EU 030 Steep Garner 22-549-3
 EU 031 Steep Garner 22-549-4
 SV 003 DC-300A (CE003) Exhaust

What to do	Why to do it
EMISSION LIMITS	hdr
Opacity: less than or equal to 10 percent opacity from control device (CE003)	Minn. R. 7011.1005, subp. 3(D)
Opacity: less than or equal to 5 percent opacity (fugitive) from a commodity handling operation.	Minn. R. 7011.1005, subp. 3(A)
OPERATING REQUIREMENTS	hdr
Total Particulate Matter: greater than or equal to 80 percent collection efficiency by weight (fabric filter is typically 99% efficient)	Minn. R. 7011.1005, subp. 3(E)
Particulate Matter < 10 micron: greater than or equal to 80 percent collection efficiency by weight (fabric filter is typically 99% efficient)	Minn. R. 7011.1005, subp. 3(E)
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 10 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 2 and 14
RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading, and whether or not observed pressure drop was within the range specified in this permit	Minn. R. 7007.0800, subp. 4 and 5; Minn. R. 7011.0080
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: GP 005 DC-300B Equipment

Associated Items: CE 004 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

EU 050 Elevator 26-817

EU 051 Elevator 26-813

EU 052 Kiln Malt Hopper 26-818

EU 057 Malt Storage Silos (40)

EU 058 Shipping Malt Hopper 26-819

SV 005 DC-300B (CE004) Exhaust

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.01 grains/dry standard cubic foot . This limit applies to each individual unit listed in GP005. The limit is equivalent to approximately 1.61 lb/hour at maximum exhaust capacity. Assuming 99% control, calculated potential emissions are approximately 0.15 lb/hour.	40 CFR Section 60.302(b)(1); Minn. R. 7011.1005, subp. 2
Opacity: less than or equal to 0 percent opacity from the control device (CE004)	40 CFR Section 60.302(b)(2); Minn. R. 7011.1005, subp. 2
Opacity: less than or equal to 0 percent opacity - fugitive emissions	40 CFR Section 60.302(c)(2); Minn. R. 7011.1005, subp. 2
OPERATING REQUIREMENTS	hdr
Total Particulate Matter: greater than or equal to 99 percent collection efficiency	Minn. Stat. 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14 (data used to calculate PTE)
Particulate Matter < 10 micron: greater than or equal to 99 percent collection efficiency	Minn. Stat. 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14 (data used to calculate PTE)
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 10 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 2 and 14
RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading, and whether or not the observed pressure drop was within the range specified in this permit	Minn. R. 7007.0800, subp. 4 and 5; Minn. R. 7011.0080
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: GP 006 DC-500 Equipment

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

EU 032 Aspirator 22-503-1

EU 033 Aspirator 22-503-2

EU 034 Aspirator 22-503-3

EU 035 Aspirator 22-503-4

EU 036 Screw Conveyor 22-517

EU 037 Screw Conveyor 22-518

SV 006 DC-500 (CE006) Exhaust

What to do	Why to do it
EMISSION LIMITS	hdr
Opacity: less than or equal to 10 percent opacity from control device (CE006)	Minn. R. 7011.1005, subp. 3(D)
Opacity: less than or equal to 5 percent opacity (fugitive) from a commodity handling operation.	Minn. R. 7011.1005, subp. 3(A)
OPERATING REQUIREMENTS	hdr
Total Particulate Matter: greater than or equal to 80 percent collection efficiency by weight (fabric filter is typically 99% efficient)	Minn. R. 7011.1005, subp. 3(E)
Particulate Matter < 10 micron: greater than or equal to 80 percent collection efficiency by weight (fabric filter is typically 99% efficient)	Minn. R. 7011.1005, subp. 3(E)
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 10 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 2 and 14
RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading, and whether or not the observed pressure drop was within the range specified in this permit	Minn. R. 7007.0800, subp. 4 and 5; Minn. R. 7011.0080
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: GP 007 DC-600 Equipment

Associated Items: CE 007 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

EU 053 Malt Cleaner 26-804-1

EU 054 Malt Cleaner 26-804-2

SV 007 DC-600 (CE007) Exhaust

What to do	Why to do it
EMISSION LIMITS	hdr
Opacity: less than or equal to 10 percent opacity from control device (CE007)	Minn. R. 7011.1005, subp. 3(D)
Opacity: less than or equal to 5 percent opacity (fugitive) from a commodity handling operation.	Minn. R. 7011.1005, subp. 3(A)
OPERATING REQUIREMENTS	hdr
Total Particulate Matter: greater than or equal to 80 percent collection efficiency by weight (fabric filter is typically 99% efficient)	Minn. R. 7011.1005, subp. 3(E)
Particulate Matter < 10 micron: greater than or equal to 80 percent collection efficiency by weight (fabric filter is typically 99% efficient)	Minn. R. 7011.1005, subp. 3(E)
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 10 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 2 and 14
RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading, and whether or not the observed pressure drop was within the range specified in this permit	Minn. R. 7007.0800, subp. 4 and 5; Minn. R. 7011.0080
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: GP 008 Kilns

- Associated Items:** EU 038 Kiln Upper Deck 24-707-1
 EU 039 Kiln Upper Deck 24-707-2
 EU 040 Kiln Lower Deck 24-708-1
 EU 041 Kiln Lower Deck 24-708-2
 SV 010 Kiln 1
 SV 011 Kiln 2

What to do	Why to do it
EMISSION 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)
OPERATING REQUIREMENTS	hdr
Sulfur Usage: Less than or equal to 155 pounds per day, in each of Kiln 1 and Kiln 2 (310 pounds per day total)	Minn. Stat. 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14 (data used in PTE calculations)
RECORDKEEPING REQUIREMENTS	hdr
Daily Recordkeeping - Sulfur Usage: Each day, the Permittee shall record the total quantity of sulfur used in each kiln during the previous calendar day	Minn. R. 7007.0800, subp. 4 and 5

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: SV 008 DC-700 (CE008) Exhaust

Associated Items: EU 069 Central Dust Collection System□□

What to do	Why to do it
EMISSION 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)
OPERATING REQUIREMENTS	hdr
Total Particulate Matter: greater than or equal to 99 percent collection efficiency	Minn. Stat. 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14
Particulate Matter < 10 micron: greater than or equal to 99 percent collection efficiency	Minn. Stat. 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 10 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 2 and 14
RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading, and whether or not the observed pressure drop was within the range specified in this permit	Minn. R. 7007.0800, subp. 4 and 5; Minn. R. 7011.0080
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: EU 070 Boiler 1**Associated Items:** SV 009 Boilers

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.4 lbs/million Btu heat input	Minn. R. 7011.0515, 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.	Minn. R. 7011.0515, subp. 2
OPERATING REQUIREMENTS	hdr
Fuel use: Limited to natural gas and no. 6 fuel oil, by design.	Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14 (data used to calculate PTE)
Sulfur Content of Fuel: less than or equal to 2.5 percent by weight	Minn. Stat. 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14 (data used to calculate PTE)
Performance Test: due 365 days after 10/08/2002 to measure PM and opacity emissions while combusting no. 6 fuel oil. This test was completed in March 2003, and a Notice of Compliance was sent to the Permittee in May 2003.	Minn. R. 7017.2020, subp. 1
RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping: Record and maintain records of the amounts of each fuel combusted on a monthly basis. These records may consist of purchase records or receipts, but must include the sulfur content of fuel oil purchased.	Minn. R. 7007.0800, subp. 4

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: EU 071 Boiler 2

Associated Items: SV 009 Boilers

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.4 lbs/million Btu heat input	Minn. R. 7011.0515, 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.	Minn. R. 7011.0515, subp. 2
OPERATING REQUIREMENTS	hdr
Steam Flow: less than or equal to 102,000 lbs/hour using 1-Hour Average as recorded in the "Boiler Room Hourly Log". Down time of 15 or more minutes is not to be included as operating time.	Minn. R. 7017.2025 (notice of compliance letter dated February 27, 1995)
Fuel use: Limited to natural gas and no. 6 fuel oil, by design.	Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14 (data used to calculate PTE)
Sulfur Content of Fuel: less than or equal to 2.5 percent by weight	Minn. Stat. 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14 (data used to calculate PTE)
Performance Test: due 365 days after 10/08/2002 to measure PM and opacity emissions while combusting no. 6 fuel oil. This test was completed in March 2003, and a Notice of Compliance was sent to the Permittee in May 2003.	Minn. R. 7017.2020, subp. 1
RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping: Record and maintain records of the amounts of each fuel combusted on a monthly basis. These records may consist of purchase records or receipts, but must include the sulfur content of fuel oil purchased.	Minn. R. 7007.0800, subp. 4
Recordkeeping - Steam Production: Record the steam production from EU071 each hour on the "Boiler Room Hourly Log".	Minn. R. 7007.0800, subp. 4

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: EU 072 Diesel Generator**Associated Items:** SV 012 Generator

What to do	Why to do it
EMISSION LIMITS	hdr
Sulfur Dioxide: less than or equal to 0.5 lbs/million Btu heat input	Minn. R. 7011.2300, subp. 2
Opacity: less than or equal to 20 percent opacity once operating temperatures have been attained.	Minn. R. 7011.2300, subp. 1

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: EU 073 Fire Pump**Associated Items:** SV 013 Fire Pump

What to do	Why to do it
EMISSION LIMITS	hdr
Sulfur Dioxide: less than or equal to 0.5 lbs/million Btu heat input	Minn. R. 7011.2300, subp. 2
Opacity: less than or equal to 20 percent opacity once operating temperatures have been attained.	Minn. R. 7011.2300, subp. 1

TABLE B: SUBMITTALS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead
Permit Number: 02700022 - 002

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

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

Send any application for a permit or permit amendment to:

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

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

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

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

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

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

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

Send submittals that are required by the Acid Rain Program to:

U.S. Environmental Protection Agency
Clean Air Markets Division
1200 Pennsylvania Avenue NW (6204N)
Washington, D.C. 20460

TABLE B: ONE TIME SUBMITTALS OR NOTIFICATIONS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

What to send	When to send	Portion of Facility Affected
Application for Permit Reissuance	due 180 days before expiration of Existing Permit	Total Facility
Computer Dispersion Modeling Protocol	due 1096 days after 10/08/2002 for SO2, NOX, and PM10. This protocol will describe the proposed modeling methodology and input data, in accordance with MPCA modeling guidance for Title V air dispersion modeling analyses. 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 Results	due 1462 days after 10/08/2002 for SO2, NOX, and PM10. To be submitted after the MPCA has reviewed and approved the modeling protocol. The submittal should adhere to MPCA modeling guidance for Title V air dispersion modeling analyses. This is a state-only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Total Facility
Testing Frequency Plan	due 60 days after 03/04/2003 for PM and opacity emissions. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on one-year (12 month), 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA. Received by the MPCA on June 4, 2003.	EU070
Testing Frequency Plan	due 60 days after 03/04/2003 for PM and opacity emissions. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on one-year (12 month), 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA. Received by the MPCA on June 4, 2003.	EU071

TABLE B: RECURRENT SUBMITTALS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

What to send	When to send	Portion of Facility Affected
Semiannual Deviations Report	due 30 days after end of each calendar half-year starting 10/08/2002 . The first semiannual report submitted by the Permittee shall cover the calendar half-year in which the permit is issued. The first report of each calendar year covers January 1 - June 30. The second report of each calendar year covers July 1 - December 31. If no deviations have occurred, the Permittee shall submit the report stating no deviations.	Total Facility
Compliance Certification	due 31 days after end of each calendar year starting 10/08/2002 (for the previous calendar year). To be submitted on a form approved by the Commissioner, both to the Commissioner and to the US EPA regional office in Chicago. This report covers all deviations experienced during the calendar year.	Total Facility

APPENDIX MATERIAL

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022-002

Insignificant Activities Required to be Listed

Minn. R. 7007.1300, subpart	Rule Description of the Activity	Applicable Requirement
3(G)	Emissions from a laboratory, as defined in the subpart. <ul style="list-style-type: none">• Barley and malt analysis lab	Minn. R. 7011.0710/0715
3(H)	Miscellaneous:	
	1. total usage of less than 200 gallons of VOC (including hazardous air pollutant-containing VOC) combined in any consecutive 12 months period at a stationary source; <ul style="list-style-type: none">• Parts washer in maintenance shop	Minn. R. 7011.0710/0715 <i>OR</i>
	4. brazing, soldering or welding equipment; <ul style="list-style-type: none">• Welding tools in maintenance shop	7011.0710/0715

TECHNICAL SUPPORT DOCUMENT
For
AIR EMISSION PERMIT NO. 02700022-002

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

1. General Information

1.1. Applicant and Stationary Source Location:

Owner Address	Facility Address
Busch Agricultural Resources, Inc. 3636 S. Geyer Rd. St. Louis, MO 63127	2101 26th Street South Moorhead, Clay County, 56560 (SIC Code: 2083)
Facility Contact: Kirby Kraft Director, Malt Administration and Environmental Engineering (314) 984-4622	

1.2. Description of the facility

Busch Agricultural Resources, Inc. (BARI) operates a barley malting plant in Moorhead, Minnesota. The barley is received, cleaned, graded, and stored in the silos. As needed, the barley is removed from the silos, conveyed to the steep house and loaded into the steep tanks. After 48 hours, the barley is transferred from the steep tanks into the germination compartments where it germinates for four days. The sprouted barley (green malt) is then transferred to the upper deck of a double deck kiln, dried for 12 to 24 hours, then dropped into the lower deck and dried for an additional 12 to 24 hours. The kiln is steam heated. Sulfur is used to introduce Sulfur Dioxide (SO₂) during the low heat phase of the kilning. The dried malt is cleaned and stored for a minimum of 28 days for aging. The malt is cleaned a second time just before loading into rail cars for shipping.

Emissions at the facility consist of particulate matter from grain handling and malt processing, SO₂ emissions from the kilns, and combustion products from the boilers and diesel generators. All grain and malt handling, with the exception of the kilns, is controlled with fabric filter baghouses.

The facility is a major source under federal Prevention of Significant Deterioration (PSD, 40 CFR 52.21) and the Title V permit program (40 CFR 70.2).

1.3. Description of any changes allowed with this permit issuance

This permit amendment increases an existing Title I Condition (listed under GP 001 DC-400 Equipment) for the allowable “**total cleaned and graded barley**” limit of 200,000 tons/year to 250,000 tons/year.

The Permittee requested that the existing Title I Condition (listed under GP 001 DC-400 Equipment) for the allowable “**cleaned and graded barley shipped as export barley**” limit of 27,315 tons/year be removed, as this process is not affected by the barley cleaning equipment, and that there is no physical or design limitation that would prevent this facility from increasing the amount of export barley. Upon review of the “potential de-bottlenecking analysis” document associated with the permit action number 1258A-01-I/O-01, and discussing with the Permittee, the MPCA staff conclude that the above-mentioned limit is redundant and meaningless. Hence, the limit for cleaned and graded barley shipped as export barley **is eliminated** from this permit.

In order to satisfy the Compliance Assurance Monitoring (CAM – 40 CFR Part 64) for the fabric filter (CE 009) in this permit, a new requirement to monitor and recordkeeping of Visible Emissions is added to this permit.

This permit does not authorize any additional emission units or increased capacity.

Administrative Amendment Request – This permit amendment incorporates revisions to EU 071 (Boiler #2) limit basis and recordkeeping requirement. The Permittee requested that steam generated be recorded by an hourly log, each hour, instead of the 8-hour rolling average. Hence, this permit is amended to monitor steam generated on an hourly basis and to keep those hourly steam records.

1.4. Facility Emissions:

Table 1. Emissions Associated With the Modification

Pollutant	Potential to Emit from the modification (lb/hr)	Potential to Emit from the modification (TPY)	*Emission Increases Authorized with this Permit Action (TPY)	*Emission Decreases Authorized with this Permit Action	**Other contemporaneous emission increases/decreases (TPY)	Net Emission Change (TPY)	NSR/ 112(g) Threshold Level (TPY)	NSR/ MACT Review Required (Yes or No)
PM	0.2	0.87	0.87	NA	NA	0.87	25	No
PM ₁₀	0.06	0.27	0.27	NA	NA	0.27	15	No

Table 2. *Total Facility Potential to Emit Summary:

	PM tpy	PM ₁₀ tpy	SO ₂ tpy	NO _x tpy	CO tpy	VOC tpy	Single HAP tpy	All HAPs tpy
Total Facility Limited Potential Emissions*	225	166	2805	447	80	5.5	1.7	2.5
Total Facility Actual Emissions**	78.7	54.3	265	78.0	15.0	1.0	NR	NR

*These are the limited potential emissions from column 3 in GI-07 from Delta. They differ from those in the permit application sent by the company in that they have been verified and corrected as need be by MPCA staff. These are the potential emissions that would appear in a public notice.

**Most recent actual emissions from the facility that were reported as part of the Emissions Inventory

NR – The Permittee is not required to report this information for Emissions Inventory

Table 3. Permit Action Classification

Classification (put x in appropriate box)	Major/Affected Source	*Synthetic Minor	*Minor
PSD (list pollutant)			PM, PM ₁₀
Part 70 Permit Program (list pollutant)			PM ₁₀

* 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

New Source Review

The facility is an existing major source under New Source Review. There are no modifications being made at this time. A modification was made in 2001, for which federally enforceable conditions were accepted such that the modification was not major under New Source Review. Those conditions are included in this permit (GP001).

Part 70 Permit Program

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

New Source Performance Standards (NSPS)

Portions of the facility that have been modified since August 3, 1978 are subject to 40 CFR Section 60, Subpart DD, Standards of Performance For Grain Elevators. The barley cleaning lines, which were replaced during 2001, are subject to Subpart DD. The items in GP003 and GP005 became subject to the NSPS in 1990 when the air pollution control systems were upgraded. Testing required under NSPS has been completed.

National Emission Standards for Hazardous Air Pollutants (NESHAPs) Applicability:

The facility is a non-major source of HAPs.

EU 071: This unit is subject to Minn. R. 7011.0600 – 7011.0610: Standards of Performance for Fossil-Fuel-Burning Direct Heating Equipment (DHE rule)

Table 3. Regulatory Overview of Facility

Group	Applicable Regulations	Comments:
GP001	Title I Conditions: 40 CFR § 52.21 and Minn. R. 7007.3000	Limits set in previous permit to avoid major source classification for modification – Recordkeeping Requirement; Process Throughput: less than or equal to 250,000 tons/year of total barley cleaned and graded.
EU 071	Minn. R. 7017.2025	Steam Flow: less than or equal to 102,000 lbs/hr, recorded each hour in the “Boiler Room Hourly Log”.

3. Technical Information

Permit limit revision discussion: GP 001 DC-400 Equipment contains the limit for “Process Throughput” for barley cleaned and graded, and for the export barley. The Permittee has indicated that there is no change in hourly emission rates by increasing the total amount of barley cleaned and graded. There is no physical change or modification involved to accommodate the increase of 50,000 more tons per year of barley cleaned and graded. Further, by increasing the overall barley throughput to 250,000 tons per year of barley cleaned and graded, will not debottleneck the facility’s ability to produce the malt. Steep/germination/kilns remain the operational constraint.

In the technical support document for the permit action no. 1258A-01-I/O-01, the MPCA staff noted ... “the cleaned barley follows two paths at the facility, part of it is processed into malt and part of it is processed into “**export barley**”. The malting capacity of the plant is limited by the capacity of the steeping tanks, elevator, germination compartments and their conveyor system. These are batch processes and the Permittee state that they do not intend to increase the capacity of the malting equipment at this facility”. In addition, the MPCA staff concluded that “there is no physical or design limitation that would prevent this facility from increasing the amount of “export barley” as a result of the modification”. Hence, the GP001 limit for **export barley** is removed from this permit.

Total Particulate Matter (PM) and Particulate Matter less than 10 microns in size (PM₁₀) emissions increase from additional 50,000 tons per year of barley cleaned and graded is shown in Table 4. This table shows that even though the Title I condition related to the amount of barley cleaned and graded is amended under GP 001, the emissions increase affects GP 001 through GP 004.

Table 4. Emissions Increase Table – Tons per year

Group/Emission Point	Pollutant	Current Allowable	After the change	Net increase
GP 002	PM	0.18	0.23	0.05
	PM ₁₀	0.06	0.07	0.01
GP 003	PM	1.51	1.66	0.15
	PM ₁₀	0.7	0.77	0.07
GP 004	PM	0.43	0.51	0.08
	PM ₁₀	0.2	0.24	0.04
GP 001	PM	2.35	2.94	0.59
	PM ₁₀	0.61	0.76	0.15
Totals	PM	4.47	5.34	0.87*
	PM ₁₀	1.57	1.84	0.27*

*This total emissions increase was shown in Delta under GP 001 only

EAW/EIS Applicability: This permit amendment does not meet the criteria for an EAW/EIS

Periodic Monitoring

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

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

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

Table 5 summarizes the periodic monitoring requirements for those emission units for which the monitoring required by the applicable requirement is nonexistent or inadequate.

Table 5. Periodic Monitoring

GP/CE /SV	Emission Limit (basis)	Additional Monitoring	Discussion
GP001	PM, opacity (NSPS); 40 CFR Part 64; Minn. R. 7007.0800, subp. 2, 4, 5, and 14	Operation and maintenance of the baghouse, daily pressure drop readings	Meets requirements of Compliance Assurance Monitoring. At maximum hourly capacity, controlled emissions calculated using AP-42 are approximately 15% of the applicable limit. NSPS initial compliance testing has been completed, and tested emissions were approximately 12% of the limit.
	Production limits (Title I)	Recordkeeping	
CE 009 SV 004	40 CFR Part 64; Minn. R. 7007.0800, subp. 2, 4, 5, and 14	Daily Monitoring and Recordkeeping of Visible Emissions	Visible Emissions (VEs) are monitored once each day. If any VEs are observed, the Permittee will take the corrective action as soon as possible and keep a record of action.

CAM Applicability: Compliance Assurance Monitoring (CAM) applies to the fabric filter CE 009, which controls emissions from GP 001. Per “Technical Guidance Document: Compliance Assurance Monitoring” by U.S. Environmental Protection Agency (EPA), these emission units are **not** considered as “**large units**” (emissions not greater than the major source thresholds while considering the fabric filter), **and the CAM Plan is not required to be submitted for the pollution control equipment, at this time.** CAM plan is required when this facility applies for Title V permit re-issuance.

Justification – Meets CAM requirements per 40 CFR Part 64: The three basic elements of CAM permit terms and conditions: Indicator (pressure drop and visible emissions check), Indicator range, and Performance criteria for the pollution control equipment are in this permit: The Permittee will monitor and keep records on a daily basis of the **pressure drop range (0.5 to 10.0 inches of water)**, of the fabric filter and the **visible emissions from the stack, and periodic inspection of fabric filter components.** In addition, the Permittee is required to operate and maintain the fabric filter according to the control equipment manufacturer’s specifications and the facility Operation and Maintenance plan. The Permittee is further required to operate the control equipment monitoring equipment at all times the control equipment is required to operate.

Public Comment Period: No comments were received during the 30-day comment period.

4. Conclusion

Based on the information provided by Busch Agricultural Resources, Inc., the MPCA has reasonable assurance that the proposed operation of the emission facility, as described in the Air Emission Permit No. 02700022-002 and this TSD, will not cause or contribute to a violation of applicable federal regulations and Minnesota Rules.

Staff Members on Permit Team: Cary Hernandez, John Chikkala
Toni Volkmeier (Peer Review)

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

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

Subject Item:	Total Facility
What to do	Why to do it
FACILITY-SPECIFIC REQUIREMENTS	hdr
The Permittee shall clean up commodities spilled on the driveway and other facility property as required to minimize fugitive emissions to a level consistent with RACT (reasonably available control technology).	Minn. R. 7011.1005, subp. 1(A)
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. 7011.1015; Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 16(J)
No owner or operator of a dry bulk agricultural commodity facility may operate or maintain a facility that creates a public nuisance. If the commissioner of the MPCA determines that operation or maintenance of the commodity facility creates a public nuisance, the owner or operator may be required to take measures necessary to eliminate the nuisance.	Minn. R. 7011.1010
REQUIREMENTS APPLICABLE TO ALL FACILITIES	hdr
Circumvention: Do not install or use a device or means that conceals or dilutes emissions, which would otherwise violate a federal or state air pollution control rule, without reducing the total amount of pollutant emitted.	Minn. R. 7011.0020
Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment. At a minimum, the O & M plan shall identify all air pollution control equipment and shall include a preventative maintenance program for that equipment, a description of (the minimum but not necessarily the only) corrective actions to be taken to restore the equipment to proper operation to meet applicable permit conditions, a description of the employee training program for proper operation and maintenance of the control equipment, and the records kept to demonstrate plan implementation.	Minn. R. 7007.0800, subp. 14 and Minn. R. 7007.0800, subp. 16(J)
Operation Changes: In any shutdown, breakdown, or deviation the Permittee shall immediately take all practical steps to modify operations to reduce the emission of any regulated air pollutant. The Commissioner may require feasible and practical modifications in the operation to reduce emissions of air pollutants. No emissions units that have an unreasonable shutdown or breakdown frequency of process or control equipment shall be permitted to operate.	Minn. R. 7019.1000, subp. 4
Fugitive Emissions: Do not cause or permit the handling, use, transporting, or storage of any material in a manner which may allow avoidable amounts of particulate matter to become airborne. Comply with all other requirements listed in Minn. R. 7011.0150.	Minn. R. 7011.0150
Noise: The Permittee shall comply with the noise standards set forth in Minn. R. 7030.0010 to 7030.0080 at all times during the operation of any emission units. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. R. 7030.0010 - 7030.0080
Inspections: The Permittee shall comply with the inspection procedures and requirements as found in Minn. R. 7007.0800, subp. 9(A).	Minn. R. 7007.0800, subp. 9(A)
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in Tables A, B, and/or C.	Minn. R. ch. 7017
Limits set as a result of a performance test (conducted before or after permit issuance) apply until superseded as specified by Minn. R. 7017.2025 following formal review of a subsequent performance test on the same unit.	Minn. R. 7017.2025
Monitoring Equipment Calibration: Annually calibrate all required monitoring equipment (any requirements applying to continuous emission monitors are listed separately in this permit).	Minn. R. 7007.0800, subp. 4(D)
Operation of Monitoring Equipment: Unless otherwise noted in Tables A, B, and/or C, monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown, or during checks of the monitoring systems, such as calibration checks and zero and span adjustments. If monitoring records are required, they should reflect any such periods of process shutdown or checks of the monitoring system.	Minn. R. 7007.0800, subp. 4(D)

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

<p>Record keeping: Retain all records at the stationary source for a period of five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A).</p>	<p>Minn. R. 7007.0800, subp. 5(C)</p>
<p>Recordkeeping: Maintain records describing any insignificant modifications (as required by Minn. R. 7007.1250, subp. 3) or changes contravening permit terms (as required by Minn. R. 7007.1350 subp. 2), including records of the emissions resulting from those changes.</p>	<p>Minn. R. 7007.0800, subp. 5(B)</p>
<p>Shutdown Notifications: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. If the owner or operator does not have advance knowledge of the shutdown, notification shall be made to the Commissioner as soon as possible after the shutdown. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 3.</p> <p>At the time of notification, the owner or operator shall inform the Commissioner of the cause of the shutdown and the estimated duration. The owner or operator shall notify the Commissioner when the shutdown is over.</p>	<p>Minn. R. 7019.1000, subp. 3</p>
<p>Breakdown Notifications: Notify the Commissioner within 24 hours of a breakdown of more than one hour duration of any control equipment or process equipment if the breakdown causes any increase in the emissions of any regulated air pollutant. The 24-hour time period starts when the breakdown was discovered or reasonably should have been discovered by the owner or operator. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 2.</p> <p>At the time of notification or as soon as possible thereafter, the owner or operator shall inform the Commissioner of the cause of the breakdown and the estimated duration. The owner or operator shall notify the Commissioner when the breakdown is over.</p>	<p>Minn. R. 7019.1000, subp. 2</p>
<p>Notification of Deviations Endangering Human Health or the Environment: As soon as possible after discovery, notify the Commissioner or the state duty officer, either orally or by facsimile, of any deviation from permit conditions which could endanger human health or the environment.</p>	<p>Minn. R. 7019.1000, subp. 1</p>
<p>Notification of Deviations Endangering Human Health or the Environment Report: Within 2 working days of discovery, notify the Commissioner in writing of any deviation from permit conditions which could endanger human health or the environment. Include the following information in this written description:</p> <ol style="list-style-type: none"> 1. the cause of the deviation; 2. the exact dates of the period of the deviation, if the deviation has been corrected; 3. whether or not the deviation has been corrected; 4. the anticipated time by which the deviation is expected to be corrected, if not yet corrected; and 5. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation. 	<p>Minn. R. 7019.1000, subp. 1</p>
<p>Application for Permit Amendment: If a permit amendment is needed, submit an application in accordance with the requirements of Minn. R. 7007.1150 through Minn. R. 7007.1500. Submittal dates vary, depending on the type of amendment needed.</p>	<p>Minn. R. 7007.1150 through Minn. R. 7007.1500</p>
<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>	<p>Minn. R. 7007.1400, subp. 1(H)</p>
<p>Emission Inventory Report: due 91 days after end of each calendar year following permit issuance (April 1). To be submitted on a form approved by the Commissioner.</p>	<p>Minn. R. 7019.3000 through Minn. R. 7019.3010</p>
<p>Emission Fees: due 60 days after receipt of an MPCA bill.</p>	<p>Minn. R. 7002.0005 through Minn. R. 7002.0095</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: GP 001 DC-400 Equipment

- Associated Items:** CE 009 Fabric Filter - Low Temperature, i.e., T<180 Degrees F
 EU 011 Debearder Garner 21-326-2/Feed Barley 1 (FB1)
 EU 012 Feed Barley Screw Conveyor 21-330
 EU 013 Grade A/B/C Bin 21-326-3
 EU 014 Grade A/B/C Bin 21-326-1
 EU 025 Feed Barley Bin 20-306
 EU 026 Seed and Screenings Bin 20-304
 EU 074 Conveyor 21-336
 EU 076 Conveyor 21-330A
 EU 078 Grain Cleaner 503 21-329-1
 EU 079 Grain Cleaner 504 21-329-2
 EU 080 Separator 505 21-324-1ABC
 EU 081 Separator 506 21-324-1DEF
 EU 082 Separator 507 21-324-2ABC
 EU 083 Separator 508 21-324-2DEF
 EU 084 Grader 509
 EU 085 Grader 510
 EU 086 Conveyor 21-337
 SV 004 DC-400 (CE009) Exhaust

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.01 grains/dry standard cubic foot . This limit applies to each individual unit listed in GP001. The limit is equivalent to approximately 3.23 lb/hour at maximum exhaust capacity. Assuming 99% control, calculated potential emissions are approximately 0.51 lb/hour.	40 CFR Section 60.302(b)(1); Minn. R. 7011.1005, subp. 2
Opacity: less than or equal to 0 percent opacity from the control device (CE009)	40 CFR Section 60.302(b)(2); Minn. R. 7011.1005, subp. 2
Opacity: less than or equal to 0 percent opacity - fugitive emissions	40 CFR Section 60.302(c)(2); Minn. R. 7011.1005, subp. 2
OPERATING REQUIREMENTS	hdr
Process Throughput: less than or equal to 250000 tons/year using 12-month Rolling Sum (total cleaned and graded barley) to be calculated by the 15th day of each month for the previous 12-month period as described later in this permit. All emission units or stacks added to GP001 as allowed in this permit shall be included in this calculation.	Title I Condition: To avoid classification of previous modification as major under 40 CFR Section 52.21 and Minn. R. 7007.3000
Total Particulate Matter: greater than or equal to 99 percent collection efficiency	Minn. Stat. 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14 (data used to calculate PTE)
Particulate Matter < 10 micron: greater than or equal to 99 percent collection efficiency	Minn. Stat. 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14 (data used to calculate PTE)
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 10 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 2 and 14; Also meets requirements under 40 CFR Part 64
Visible Emissions: The Permittee shall check the fabric filter stack (SV 004) for any visible emissions once each day of operation during daylight hours. During inclement weather, the Permittee shall read and record the pressure drop across the fabric filter, once each day of operation.	Minn. R. 7007.0800, subp. 4 and 5; Also meets requirements under 40 CFR Part 64
RECORDKEEPING REQUIREMENTS	hdr

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

<p>Monthly Recordkeeping - Total Cleaned and Graded Barley: By the 15th day of each month, the Permittee shall calculate and record the following:</p> <ol style="list-style-type: none"> 1. The total cleaned and graded barley processed for the previous calendar month. This shall be based on grain receipt records and processing logs. 2. The 12-month rolling sum of the total cleaned and graded barley for the previous 12 month period by summing the monthly total cleaned and graded barley for the previous 12 months. 	Minn. R. 7007.0800, subp. 4 and 5
<p>Recordkeeping of Pressure Drop and Visible Emissions: The Permittee shall record the time and date of each pressure drop reading and visible emission inspection, and whether or not the observed pressure drop was within the range specified in this permit, and whether or not any visible emissions were observed.</p>	Minn. R. 7007.0800, subp. 4 and 5; Minn. R. 7011.0080
<p>Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.</p>	Minn. R. 7007.0800, subp. 4, 5 and 14
<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur:</p> <ul style="list-style-type: none"> - the recorded pressure drop is outside the required operating range; or - visible emissions are observed; or - the fabric filter or any of its components are found during the inspections to need repair. <p>Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.</p>	Minn. R. 7007.0800, subp. 4, 5, and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: GP 002 DC-100 Equipment

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

EU 001 Barley Unloading

EU 067 By-Product Loadout

SV 001 DC-100 (CE001) Exhaust

What to do	Why to do it
EMISSION LIMITS	hdr
Opacity: less than or equal to 10 percent opacity from control device (CE001)	Minn. R. 7011.1005, subp. 3(D)
Opacity: less than or equal to 5 percent opacity (fugitive) from a truck or railcar unloading station or a railcar loading station.	Minn. R. 7011.1005, subp. 3(A)
Opacity: less than or equal to 10 percent opacity (fugitive) from a truck loading station	Minn. R. 7011.1005, subp. 3(B)
OPERATING REQUIREMENTS	hdr
Total Particulate Matter: greater than or equal to 80 percent collection efficiency by weight (fabric filter is typically 99% efficient)	Minn. R. 7011.1005, subp. 3(E)
Particulate Matter < 10 micron: greater than or equal to 80 percent collection efficiency by weight (fabric filter is typically 99% efficient)	Minn. R. 7011.1005, subp. 3(E)
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 10 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 2 and 14
RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading, and whether or not the observed pressure drop was within the range specified in this permit	Minn. R. 7007.0800, subp. 4 and 5; Minn. R. 7011.0080
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: GP 003 DC-200 Equipment

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

- EU 002 Drag Conveyor 19-205
- EU 003 Elevator 19-208
- EU 015 Screw Conveyor 25-402-2
- EU 018 Belt Conveyor 25-401-1
- EU 019 Belt Conveyor 25-401-2
- EU 020 Belt Conveyor 25-401-3
- EU 021 Drag Conveyor 25-406-1
- EU 022 Drag Conveyor 25-406-2
- EU 023 Drag Conveyor 25-406-3
- EU 027 Screw Conveyor 20-308
- EU 042 Conveyor 24-702-1
- EU 043 Conveyor 24-702-2
- EU 044 Conveyor 24-702-3
- EU 045 Conveyor 24-702-4
- EU 046 Drag Conveyor 24-703
- EU 047 Drag Conveyor 24-704
- EU 048 Screw Conveyor 24-705
- EU 049 Screw Conveyor 25-402-1
- EU 055 Weigh Scale 26-815
- EU 059 Malt Bin 27-906-1
- EU 060 Malt Loadout Drag Conveyor 27-904
- EU 061 Malt Loadout Drag Conveyor 27-902
- EU 062 Sprouts Bin 27-906-2
- EU 063 Screw Conveyor 27-903
- EU 075 Conveyor 21-335
- EU 077 Conveyor 26-816
- SV 002 DC-200 (CE002) Exhaust

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.01 grains/dry standard cubic foot . This limit applies to each individual unit listed in GP003. The limit is equivalent to approximately 3.23 lb/hour at maximum exhaust capacity. Assuming 99% control, <u>calculated potential emissions are approximately 0.41 lb/hour.</u>	40 CFR Section 60.302(b)(1); Minn. R. 7011.1005, subp. 2
Opacity: less than or equal to 0 percent opacity from the control device (CE002)	40 CFR Section 60.302(b)(2); Minn. R. 7011.1005, subp. 2
Opacity: less than or equal to 0 percent opacity - fugitive emissions	40 CFR Section 60.302(c)(2); Minn. R. 7011.1005, subp. 2
OPERATING REQUIREMENTS	hdr
Total Particulate Matter: greater than or equal to 99 percent collection efficiency	Minn. Stat. 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14 (data used to calculate PTE)
Particulate Matter < 10 micron: greater than or equal to 99 percent collection efficiency	Minn. Stat. 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14 (data used to calculate PTE)
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 10 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 2 and 14
RECORDKEEPING REQUIREMENTS	hdr

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

<p>Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading, and whether or not the observed pressure drop was within the range specified in this permit</p>	<p>Minn. R. 7007.0800, subp. 4 and 5; Minn. R. 7011.0080</p>
<p>Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.</p>	<p>Minn. R. 7007.0800, subp. 4, 5 and 14</p>
<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.</p>	<p>Minn. R. 7007.0800, subp. 4, 5, and 14</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: GP 004 DC-300A Equipment

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

EU 004 Raw Barley Garner 21-302

EU 016 Elevator 21-304

EU 017 Barley Storage Silos (48)

EU 024 Weigh Belt 22-558

EU 028 Steep Garner 22-549-1

EU 029 Steep Garner 22-549-2

EU 030 Steep Garner 22-549-3

EU 031 Steep Garner 22-549-4

SV 003 DC-300A (CE003) Exhaust

What to do	Why to do it
EMISSION LIMITS	hdr
Opacity: less than or equal to 10 percent opacity from control device (CE003)	Minn. R. 7011.1005, subp. 3(D)
Opacity: less than or equal to 5 percent opacity (fugitive) from a commodity handling operation.	Minn. R. 7011.1005, subp. 3(A)
OPERATING REQUIREMENTS	hdr
Total Particulate Matter: greater than or equal to 80 percent collection efficiency by weight (fabric filter is typically 99% efficient)	Minn. R. 7011.1005, subp. 3(E)
Particulate Matter < 10 micron: greater than or equal to 80 percent collection efficiency by weight (fabric filter is typically 99% efficient)	Minn. R. 7011.1005, subp. 3(E)
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 10 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 2 and 14
RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading, and whether or not observed pressure drop was within the range specified in this permit	Minn. R. 7007.0800, subp. 4 and 5; Minn. R. 7011.0080
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: GP 005 DC-300B Equipment

Associated Items: CE 004 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

EU 050 Elevator 26-817

EU 051 Elevator 26-813

EU 052 Kiln Malt Hopper 26-818

EU 057 Malt Storage Silos (40)

EU 058 Shipping Malt Hopper 26-819

SV 005 DC-300B (CE004) Exhaust

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.01 grains/dry standard cubic foot . This limit applies to each individual unit listed in GP005. The limit is equivalent to approximately 1.61 lb/hour at maximum exhaust capacity. Assuming 99% control, calculated potential emissions are approximately 0.15 lb/hour.	40 CFR Section 60.302(b)(1); Minn. R. 7011.1005, subp. 2
Opacity: less than or equal to 0 percent opacity from the control device (CE004)	40 CFR Section 60.302(b)(2); Minn. R. 7011.1005, subp. 2
Opacity: less than or equal to 0 percent opacity - fugitive emissions	40 CFR Section 60.302(c)(2); Minn. R. 7011.1005, subp. 2
OPERATING REQUIREMENTS	hdr
Total Particulate Matter: greater than or equal to 99 percent collection efficiency	Minn. Stat. 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14 (data used to calculate PTE)
Particulate Matter < 10 micron: greater than or equal to 99 percent collection efficiency	Minn. Stat. 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14 (data used to calculate PTE)
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 10 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 2 and 14
RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading, and whether or not the observed pressure drop was within the range specified in this permit	Minn. R. 7007.0800, subp. 4 and 5; Minn. R. 7011.0080
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: GP 006 DC-500 Equipment

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

EU 032 Aspirator 22-503-1

EU 033 Aspirator 22-503-2

EU 034 Aspirator 22-503-3

EU 035 Aspirator 22-503-4

EU 036 Screw Conveyor 22-517

EU 037 Screw Conveyor 22-518

SV 006 DC-500 (CE006) Exhaust

What to do	Why to do it
EMISSION LIMITS	hdr
Opacity: less than or equal to 10 percent opacity from control device (CE006)	Minn. R. 7011.1005, subp. 3(D)
Opacity: less than or equal to 5 percent opacity (fugitive) from a commodity handling operation.	Minn. R. 7011.1005, subp. 3(A)
OPERATING REQUIREMENTS	hdr
Total Particulate Matter: greater than or equal to 80 percent collection efficiency by weight (fabric filter is typically 99% efficient)	Minn. R. 7011.1005, subp. 3(E)
Particulate Matter < 10 micron: greater than or equal to 80 percent collection efficiency by weight (fabric filter is typically 99% efficient)	Minn. R. 7011.1005, subp. 3(E)
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 10 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 2 and 14
RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading, and whether or not the observed pressure drop was within the range specified in this permit	Minn. R. 7007.0800, subp. 4 and 5; Minn. R. 7011.0080
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: GP 007 DC-600 Equipment

Associated Items: CE 007 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

EU 053 Malt Cleaner 26-804-1

EU 054 Malt Cleaner 26-804-2

SV 007 DC-600 (CE007) Exhaust

What to do	Why to do it
EMISSION LIMITS	hdr
Opacity: less than or equal to 10 percent opacity from control device (CE007)	Minn. R. 7011.1005, subp. 3(D)
Opacity: less than or equal to 5 percent opacity (fugitive) from a commodity handling operation.	Minn. R. 7011.1005, subp. 3(A)
OPERATING REQUIREMENTS	hdr
Total Particulate Matter: greater than or equal to 80 percent collection efficiency by weight (fabric filter is typically 99% efficient)	Minn. R. 7011.1005, subp. 3(E)
Particulate Matter < 10 micron: greater than or equal to 80 percent collection efficiency by weight (fabric filter is typically 99% efficient)	Minn. R. 7011.1005, subp. 3(E)
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 10 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 2 and 14
RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading, and whether or not the observed pressure drop was within the range specified in this permit	Minn. R. 7007.0800, subp. 4 and 5; Minn. R. 7011.0080
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: GP 008 Kilns

- Associated Items:** EU 038 Kiln Upper Deck 24-707-1
 EU 039 Kiln Upper Deck 24-707-2
 EU 040 Kiln Lower Deck 24-708-1
 EU 041 Kiln Lower Deck 24-708-2
 SV 010 Kiln 1
 SV 011 Kiln 2

What to do	Why to do it
EMISSION 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)
OPERATING REQUIREMENTS	hdr
Sulfur Usage: Less than or equal to 155 pounds per day, in each of Kiln 1 and Kiln 2 (310 pounds per day total)	Minn. Stat. 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14 (data used in PTE calculations)
RECORDKEEPING REQUIREMENTS	hdr
Daily Recordkeeping - Sulfur Usage: Each day, the Permittee shall record the total quantity of sulfur used in each kiln during the previous calendar day	Minn. R. 7007.0800, subp. 4 and 5

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: SV 008 DC-700 (CE008) Exhaust

Associated Items: EU 069 Central Dust Collection System□□

What to do	Why to do it
EMISSION 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)
OPERATING REQUIREMENTS	hdr
Total Particulate Matter: greater than or equal to 99 percent collection efficiency	Minn. Stat. 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14
Particulate Matter < 10 micron: greater than or equal to 99 percent collection efficiency	Minn. Stat. 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 10 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated. The Permittee shall record the pressure drop once every 24 hours when in operation.	Minn. R. 7007.0800, subp. 2 and 14
RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading, and whether or not the observed pressure drop was within the range specified in this permit	Minn. R. 7007.0800, subp. 4 and 5; Minn. R. 7011.0080
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: EU 070 Boiler 1**Associated Items:** SV 009 Boilers

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.4 lbs/million Btu heat input	Minn. R. 7011.0515, 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.	Minn. R. 7011.0515, subp. 2
OPERATING REQUIREMENTS	hdr
Fuel use: Limited to natural gas and no. 6 fuel oil, by design.	Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14 (data used to calculate PTE)
Sulfur Content of Fuel: less than or equal to 2.5 percent by weight	Minn. Stat. 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14 (data used to calculate PTE)
Performance Test: due 365 days after 10/08/2002 to measure PM and opacity emissions while combusting no. 6 fuel oil. This test was completed in March 2003, and a Notice of Compliance was sent to the Permittee in May 2003.	Minn. R. 7017.2020, subp. 1
RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping: Record and maintain records of the amounts of each fuel combusted on a monthly basis. These records may consist of purchase records or receipts, but must include the sulfur content of fuel oil purchased.	Minn. R. 7007.0800, subp. 4

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: EU 071 Boiler 2

Associated Items: SV 009 Boilers

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.4 lbs/million Btu heat input	Minn. R. 7011.0515, 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.	Minn. R. 7011.0515, subp. 2
OPERATING REQUIREMENTS	hdr
Steam Flow: less than or equal to 102,000 lbs/hour using 1-Hour Average as recorded in the "Boiler Room Hourly Log". Down time of 15 or more minutes is not to be included as operating time.	Minn. R. 7017.2025 (notice of compliance letter dated February 27, 1995)
Fuel use: Limited to natural gas and no. 6 fuel oil, by design.	Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14 (data used to calculate PTE)
Sulfur Content of Fuel: less than or equal to 2.5 percent by weight	Minn. Stat. 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2 and 14 (data used to calculate PTE)
Performance Test: due 365 days after 10/08/2002 to measure PM and opacity emissions while combusting no. 6 fuel oil. This test was completed in March 2003, and a Notice of Compliance was sent to the Permittee in May 2003.	Minn. R. 7017.2020, subp. 1
RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping: Record and maintain records of the amounts of each fuel combusted on a monthly basis. These records may consist of purchase records or receipts, but must include the sulfur content of fuel oil purchased.	Minn. R. 7007.0800, subp. 4
Recordkeeping - Steam Production: Record the steam production from EU071 each hour on the "Boiler Room Hourly Log".	Minn. R. 7007.0800, subp. 4

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: EU 072 Diesel Generator**Associated Items:** SV 012 Generator

What to do	Why to do it
EMISSION LIMITS	hdr
Sulfur Dioxide: less than or equal to 0.5 lbs/million Btu heat input	Minn. R. 7011.2300, subp. 2
Opacity: less than or equal to 20 percent opacity once operating temperatures have been attained.	Minn. R. 7011.2300, subp. 1

TABLE A: LIMITS AND OTHER REQUIREMENTS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

Subject Item: EU 073 Fire Pump**Associated Items:** SV 013 Fire Pump

What to do	Why to do it
EMISSION LIMITS	hdr
Sulfur Dioxide: less than or equal to 0.5 lbs/million Btu heat input	Minn. R. 7011.2300, subp. 2
Opacity: less than or equal to 20 percent opacity once operating temperatures have been attained.	Minn. R. 7011.2300, subp. 1

TABLE B: SUBMITTALS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead
Permit Number: 02700022 - 002

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

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

Send any application for a permit or permit amendment to:

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

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

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

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

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

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

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

Send submittals that are required by the Acid Rain Program to:

U.S. Environmental Protection Agency
Clean Air Markets Division
1200 Pennsylvania Avenue NW (6204N)
Washington, D.C. 20460

TABLE B: ONE TIME SUBMITTALS OR NOTIFICATIONS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

What to send	When to send	Portion of Facility Affected
Application for Permit Reissuance	due 180 days before expiration of Existing Permit	Total Facility
Computer Dispersion Modeling Protocol	due 1096 days after 10/08/2002 for SO2, NOX, and PM10. This protocol will describe the proposed modeling methodology and input data, in accordance with MPCA modeling guidance for Title V air dispersion modeling analyses. 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 Results	due 1462 days after 10/08/2002 for SO2, NOX, and PM10. To be submitted after the MPCA has reviewed and approved the modeling protocol. The submittal should adhere to MPCA modeling guidance for Title V air dispersion modeling analyses. This is a state-only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Total Facility
Testing Frequency Plan	due 60 days after 03/04/2003 for PM and opacity emissions. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on one-year (12 month), 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA. Received by the MPCA on June 4, 2003.	EU070
Testing Frequency Plan	due 60 days after 03/04/2003 for PM and opacity emissions. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on one-year (12 month), 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA. Received by the MPCA on June 4, 2003.	EU071

TABLE B: RECURRENT SUBMITTALS

08/06/03

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022 - 002

What to send	When to send	Portion of Facility Affected
Semiannual Deviations Report	due 30 days after end of each calendar half-year starting 10/08/2002 . The first semiannual report submitted by the Permittee shall cover the calendar half-year in which the permit is issued. The first report of each calendar year covers January 1 - June 30. The second report of each calendar year covers July 1 - December 31. If no deviations have occurred, the Permittee shall submit the report stating no deviations.	Total Facility
Compliance Certification	due 31 days after end of each calendar year starting 10/08/2002 (for the previous calendar year). To be submitted on a form approved by the Commissioner, both to the Commissioner and to the US EPA regional office in Chicago. This report covers all deviations experienced during the calendar year.	Total Facility

APPENDIX MATERIAL

Facility Name: Busch Agricultural Resources - Moorhead

Permit Number: 02700022-002

Insignificant Activities Required to be Listed

Minn. R. 7007.1300, subpart	Rule Description of the Activity	Applicable Requirement
3(G)	Emissions from a laboratory, as defined in the subpart. <ul style="list-style-type: none">• Barley and malt analysis lab	Minn. R. 7011.0710/0715
3(H)	Miscellaneous:	
	1. total usage of less than 200 gallons of VOC (including hazardous air pollutant-containing VOC) combined in any consecutive 12 months period at a stationary source; <ul style="list-style-type: none">• Parts washer in maintenance shop	Minn. R. 7011.0710/0715 <i>OR</i>
	4. brazing, soldering or welding equipment; <ul style="list-style-type: none">• Welding tools in maintenance shop	7011.0710/0715