AIR EMISSION PERMIT NO. 08300038- 007

IS ISSUED TO

Archer Daniels Midland Company

ADM CORN PROCESSING - MARSHALL
400 W Erie Road
Marshall, Lyon County, MN 56258

The emission units, control equipment and emission stacks at the stationary source authorized in this permit are as described in the following permit application(s):

Permit Type	Application Date	Permit Action	Issue Date
Total Facility Operating Permit	01/17/1995	001	7/8/2000
Major Amendment	1/16/2001	002	8/16/2001
Major Amendment	08/27/2001	003	4/11/2002
Major Amendment	MPCA-initiated	004	6/17/2002
Administrative Amendment	10/28/2002	005	12/13/2002
Major Amendment	MPCA-initiated	006	11/7/2003
Major Amendment	10/12/2004	007	See below

This permit authorizes the Permittee to operate the stationary source at the address listed above unless otherwise noted in Table A. The Permittee must comply with all the conditions of the permit. Any changes or modifications to the stationary source must be performed in compliance with Minn. 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; Pt 70/NSR Authorization
Issue Date: August 8, 2000
Authorization to Construct and Operate (40 CFR § 52.21) Issuance Date: May 15, 2006
Authorization to Construct and Operate (40 CFR § 52.21) Effective Date: May 15, 2006
Final Permit Issuance Date: May 25, 2006
Expiration: August 8, 2005
All Title I Conditions do not expire.

Richard J. Sandberg, Manager
Air Quality Permits Section
Industrial 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:

Archer Daniels Midland (ADM)-Marshall is a wet corn mill and ethanol production plant. The existing stationary source includes equipment for receiving, cleaning, storing, and milling corn. The source also includes equipment for the generation of steam and the production of corn syrup, cornstarch, and high fructose corn syrup.

The ADM facility is a major source under the federal Part 70 permit program, and a major source of particulate matter, Nitrogen Oxides (NO_x), sulfur dioxide, Volatile Organic Compounds (VOC), and carbon monoxide under the federal Prevention of Significant Deterioration program.

Permit Action 007:

This permit action incorporates several amendments into a single major amendment. This permit removes a daily ethanol production limit and replaces it with an annual ethanol production limit. NO_x performance testing requirements for SV 016 have been eliminated, and continuous emission monitoring requirements have been added in their place. This permit amendment also establishes baseline VOC emissions for several emission units. This permit action also authorizes the routing of biogas, which is currently permitted through a flare (SV 022), to an existing gluten flash dryer (SV 011). Biogas may occasionally be flared through the Wastewater Treatment Plant Flare (SV 022). In addition, limits established by Notice of Compliance letters dated 9/18/2003, 12/1/2003, 5/17/2005, and 9/13/2005 have been included in this permit amendment.

TABLE A: LIMITS AND OTHER REQUIREMENTS

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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
A. FACILITY SPECIFIC REQUIREMENTS	hdr
Parameters Used in Modeling: The stack heights, stack diameters, air flow rates, and exhaust gas temperatures used in the modeling performed for the PSD analysis for this permit are listed in Appendix I of this permit. The Permittee must submit to the Agency for approval any revisions of these parameters that are caused by a physical change or change in the method of operation of the facility and must wait for a written approval before making such changes. The information submitted must include, at a minimum, the locations, heights and diameters of the stacks, locations and dimensions of nearby buildings, the velocity and temperature of the gases emitted, and the PM10, SO2, NOX, and CO emission rates. The plume dispersion characteristics after the proposed revisions must be equivalent to or better than the dispersion characteristics used in the model dated February 29, 2000. The Permittee shall demonstrate this equivalency in the proposal.	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
If the information submitted does not demonstrate equivalent or better dispersion characteristics, or if a conclusion cannot readily be made about the dispersion, the Permittee must remodel. For any physical change to or change in the method of operation of a stack emitting PM10 or for any increase in PM10 emissions (whether or not the increase would require a permit amendment of any type), the Permittee must remodel. For changes that do not involve any increase to any emission rate or any emissions from a new emission point, this proposal must be submitted as soon as practicable, but no less than 60 days before beginning actual construction of the modification, stack, or associated emission unit(s).	Title I Condition, continued from above...
For changes involving increases in emission rates or emissions from a new emission point and that require a minor permit amendment, the proposal and/or required modeling analysis must be submitted as soon as practicable, but no less than 60 days before beginning actual construction of the modification, stack, or associated emission unit(s). For changes involving increases in emission rates or emissions from a new emission point and that require a permit amendment other than a minor amendment, the proposal and/or modeling analysis must be submitted with the permit application.	Title I Condition, continued from above...
The Permittee shall post a 5 mph speed limit for all vehicles at the facility.	40 CFR Section 52.21 and Minn. R. 7009.0020
The Permittee shall clean haul roads daily (weather permitting) using their Elgin Crosswind J Sweeper starting March 1 and ending November 30 each year. The Permittee is not required to clean the haul roads duruing the winter months (December 1 through end of February).	40 CFR Section 52.21 and Minn. R. 7009.0020
B. GENERAL REQUIREMENTS	hdr
Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment. The plan must include a maintenance schedule.	Minn. R. 7007.0800, subp. 14 and Minn. R. 7007.0800, subp. 16(J)
Operation and Maintenance of Control Equipment: The Permittee shall conduct all necessary maintenance and make all necessary attempts to keep all pollution control equipment in proper operating condition at all times. The Permittee shall operate and maintain the control equipment according to the manufacturer's specifications or the Operation and Maintenance Plan developed by the Permittee.	Title I Condition: Monitoring for 40 CFR Section 52.21 (j) or (k)
Permittee Inspection of Control Equipment: The Permittee shall inspect all control equipment according to manufacturer's specifications or the Operation and Maintenance Plan developed by the Permittee, and maintain a written record of the inspection and any action resulting from the inspection.	Minn. R. 7007.0800, subp. 2 and subp. 14
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

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Performance Test Notifications and Submittals; Performance Test Notification (written): due 30 days before each Performance Test Performance Test Plan: due 30 days before each Performance Test Performance Test Pre-Test Meeting: due 7 day before each Performance Test Performance Test Report: due 45 days after each Performance Test Performance Test Report - Microfiche Copy or CD: due 105 day after each Performance Test. The Notification, Test Plan, and Test Report may be submitted in alternative format as allowed by Minn. R. 7017.2018.	Minn. R. 7017.2030, subp. 1, subp. 1-4 and Minn. R. 7017.2035, subp. 1-2
Monitoring Equipment: Install or make needed repairs to monitoring equipment within 60 days of issuance of the permit if monitoring equipment is not installed and operational on the date the permit is issued.	Minn. R. 7007.0800, subp. 4(D)
Monitoring Equipment Calibration: Annually calibrate all required monitoring equipment (any requirements applying to continuous emission monitors are listed separately in this permit).	Minn. R. 7007.0800, subp. 4(D)
Operation of Monitoring Equipment: Unless otherwise noted in Tables A, B, and/or C, monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown, or during checks of the monitoring systems, such as calibration checks and zero and span adjustments. If monitoring records are required, they should reflect any such periods of process shutdown or checks of the monitoring system.	Minn. R. 7007.0800, subp. 4(D)
Circumvention: Do not install or use a device or means that conceals or dilutes emissions, which would otherwise violate a federal or state air pollution control rule, without reducing the total amount of pollutant emitted.	Minn. R. 7011.0020
Shutdown Notifications: Notify the Commissioner at (651)296-7300 at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. If the owner or operator does not have advance knowledge of the shutdown, notification shall be made to the Commissioner as soon as possible after the shutdown. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 3. At the time of notification, the owner or operator shall inform the Commissioner of the cause of the shutdown and the estimated duration. The owner or operator shall notify the Commissioner when the shutdown is over.	Minn. R. 7019.1000, subp. 3
Breakdown Notifications: Notify the Commissioner at (651)296-7300 within 24 hours of a breakdown of more than one hour duration of any control equipment or process equipment if the breakdown causes any increase in the emissions of any regulated air pollutant. The 24-hour time period starts when the breakdown was discovered or reasonably should have been discovered by the owner or operator. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 2. At the time of notification or as soon as possible thereafter, the owner or operator shall inform the Commissioner of the cause of the breakdown and the estimated duration. The owner or operator shall notify the Commissioner when the breakdown is over.	Minn. R. 7019.1000, subp. 2
Notification of Deviations Endangering Human Health or the Environment: As soon as possible after discovery, notify the MPCA or the state duty officer, either orally or by facsimile, of any deviation from permit conditions which could endanger human health or the environment. MPCA: (651)296-7300 State Duty Officer: (651)649-5451 or (800)422-0798	Minn. R. 7019.1000, subp. 1
Notification of Deviations Endangering Human Health or the Environment Report: Within 2 working days of discovery, notify the Commissioner in writing of any deviation from permit conditions which could endanger human health or the environment. Include the following information in this written description: 1. the cause of the deviation; 2. the exact dates of the period of the deviation, if the deviation has been corrected; 3. whether or not the deviation has been corrected; 4. the anticipated time by which the deviation is expected to be corrected, if not yet corrected; and 5. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation.	Minn. R. 7019.1000, subp. 1
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

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Air Pollution Control Equipment: Operate all pollution control equipment whenever the corresponding process equipment and emission units are operated, unless otherwise noted in Table A.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 16(J)
Fugitive Emissions: Do not cause or permit the handling, use, transporting, or storage of any material in a manner which may allow avoidable amounts of particulate matter to become airborne. Comply with all other requirements listed in Minn. R. 7011.0150.	Minn. R. 7011.0150
Application for Permit Amendment: If a permit amendment is needed, submit an application in accordance with the requirements of Minn. R. 7007.1150 through Minn. R. 7007.1500. Submittal dates vary, depending on the type of amendment needed. All changes involving any requirement identified as a Title I Condition require a major amendment. Submit all applications to the Air Quality Permit Technical Advisor, Minnesota Pollution Control Agency, Metro District/Major Facilities, 520 Lafayette Road North, St. Paul, MN 55155	Minn. R. 7007.1150 through Minn. R. 7007.1500
Extension Requests: The Permittee may apply for an Administrative Amendment to extend a deadline in a permit by no more than 120 days, provided the proposed deadline extension meets the requirements of Minn. R. 7007.1400, subp. 1(H). Submit all permit and amendment applications to the Air Quality Permit Technical Advisor, Minnesota Pollution Control Agency, Metro District/Major Facilities, 520 Lafayette Road North, St. Paul, MN 55155	Minn. R. 7007.1400, subp. 1(H)
Recordkeeping: Maintain records describing any insignificant modifications (as required by Minn. R. 7007. 1250, subp. 3) or changes contravening permit terms (as required by Minn. R. 7007.1350 subp. 2), including records of the emissions resulting from those changes.	Minn. R. 7007. 0800, subp. 5(B)
Record keeping: Retain all records at the stationary source or at the off-site storage facility located in Marshall, MN, for a period of five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A).	Minn. R. 7007.0800, subp. 5(C)
Noise: The Permittee shall comply with the noise standards set forth in Minn. R. 7030.0010 to 7030.0080 at all times during the operation of any emission units. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. R. 7030.0010 - 7030.0080
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
Inspections: The permittee shall comply with the inspection procedures and requirements as found at Minn. R. 7007.0800, subp 9(A).	Minn. R. 7007.0800, subp. 9(A)
Emissions Inventory Report: due April 1 of each year. To be submitted on a form approved by the Commissioner.	Minn. R. 7019.3000 through Minn. R. 7019.3010
Emission Fees: due 60 days after receipt of an MPCA bill.	Minn. R. 7002.0005 through Minn. R. 7002.0095
Insignificant Activities Required to be Listed: Appendix II includes activities and sources at the facility that have been determined to be insignificant under Minn. R. 7007.1300. This list is not all-inclusive; it is subject to change. The Permittee shall properly maintain the sources listed in Appendix II, to prevent excessive amounts of pollutants from being emitted from them.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.1300

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Subject Item: **GP 001 Corn Silos 1-6**

Associated Items: SV 025 Corn Silo #1

SV 026 Corn Silo #2

SV 027 Corn Silo #3

SV 028 Corn Silo #4

SV 031 Corn Silo #5

SV 032 Corn Silo #6

What to do	Why to do it
A. EMISSION LIMITS (Apply individually to each of SV025, SV026, SV027, SV028, SV031, SV032)	hdr
Total Particulate Matter: less than or equal to 0.07 lbs/hour using 24-hour Block Average This is a state only requirement and is not enforceable under the Clean Air Act by the EPA Administrator or by the citizens.	Minn. R. 7009.0200
Particulate Matter < 10 micron: less than or equal to 0.07 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.010 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 10 percent opacity	Minn. R. 7011.1005, subp. 3(D)
Opacity: less than or equal to 5 percent opacity from fugitive emissions from each unit (emissions directly from the unit, not collected by ductwork to the fabric filter)	Minn. R. 7011.1005, subp. 3(A)
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Visible Emissions: The Permittee shall check each stack (outlets of CE063, CE064, CE065, CE066, CE067, and CE068) for any visible emissions, or, during inclement weather, read and record pressure drop across the baghouse two (2) times per calendar week, when the emission unit is in operation.	Title I Condition: Monitoring for 40 CFR Section 52.21(k)
C. EMISSION UNIT OPERATION (EU101 - EU106)	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)
D. CONTROL EQUIPMENT OPERATION (CE063, CE064, CE065, CE066, CE067, CE068 - fabric filters)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: 40 CFR Section 52.21(k) (use of control equipment required to meet modeling limits)
Total Particulate Matter: greater than or equal to 80 percent control efficiency	Minn. R. 7011.1005, subp 3(E)
Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(k)
Pressure Drop: greater than or equal to 0.1 inches of water column and less than or equal to 10.0 inches of water column (for each baghouse)	Title I Condition: Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Visible Emissions or Pressure Drop: The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified herein.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Corrective Actions: If visible emissions are observed, or if the recorded pressure drop is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for the fabric filter and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)

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Subject Item: **GP 002 Sources of Fugitive Particulate Matter**

Associated Items: FS 003 Vehicle Traffic (paved roads)

FS 004 Coal Pile & Coal tranfer operations

What to do	Why to do it
Do not cause or permit the transporting of any material in a manner which may allow avoidable amounts of particulate matter to become airborne. Do not cause or permit a road or a driveway to be constructed, used, repaired, or demolished without applying all such reasonable measures as may be required to prevent particulate matter from becoming airborne. Take reasonable precautions to prevent the discharge of visible fugitive dust emissions beyond the lot line of the property on which the emissions originate. The commissioner may require such reasonable measures as may be necessary to prevent particulate matter from becoming airborne, including but not limited to, paving or frequent clearing of roads, driveways, and parking lots; application of dust-free surfaces; application of water; and the planting and maintenance of vegetative ground cover.	Minn. R. 7011.0150

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Subject Item: **SV 001 Old Corn Receiving Area**

Associated Items: EU 001 Old Corn Receiving Pit (multiple components)

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.88 lbs/hour using 24-hour Block Average This is a state only requirement and is not enforceable under the Clean Air Act by the EPA Administrator or by citizens.	Minn. R. 7009.0020
Particulate Matter < 10 micron: less than or equal to 0.88 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.009 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 10 percent opacity	Minn. R. 7011.1005, subp. 3(D)
Opacity: less than or equal to 5 percent opacity from fugitive emissions (emissions directly from the receiving pit, not collected by ductwork to the fabric filter)	Minn. R. 7011.1005, subp. 3(A)
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Visible Emissions: The Permittee shall check the stack (outlet of CE001) for any visible emissions, or, during inclement weather, read and record the pressure drop across the baghouse, once each day of operation of EU001.	Title I Condition: Monitoring for 40 CFR Section 52.21(k) limit
C. EMISSION UNIT OPERATION (EU001)	hdr
Clean up commodities spilled on the driveway and other facility property as required to minimize fugitive emissions.	Minn. R. 7011.1005, subp. 1(A)
EU001 shall not be operated between the hours of 8:00 p.m. and 6:00 a.m.	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
EU001 may not be operated simultaneously with EU003.	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Recordkeeping: Each day, record the date, and the times of all truck traffic through the corn receiving area.	Title I Condition: Recordkeeping for 40 CFR Section 52.21(k) limits
Recordkeeping: Each day of operation of this unit, record the date and the times of operation.	Title I Condition: Recordkeeping for 40 CFR Section 52.21(k) limits
Recordkeeping: The Permittee shall keep complete descriptions of each piece of equipment described by EU001. The description shall include the manufacturer, model number, capacity, and date of original installation. The description shall also identify each piece of equipment using a unique identification (ID) number. The Permittee shall submit updated versions of these descriptions with the annual Equipment List submittal (see Table B).	Title I Condition: Recordkeeping for 40 CFR Section 52.21 (k) (changes covered by modeling limits)
The Permittee may make changes to the equipment in the receiving pit, provided the changes are in compliance with all permit requirements. Changes allowed may include replacing individual components with similar components, moving or changing the configuration of components, or adding new components of the type listed in the most recently submitted Equipment List (see Table B). If a change would increase the capacity of the operation, trigger an applicable limit that is not contained in this permit, or would cause the existing emission limits to be unachievable, or would cause the emission of a different regulated pollutant (other than particulate matter), the change must go through the appropriate procedures under Minn. R. ch. 7007. If a change would require an increase in the PM10 emission limit or would cause the emission of a pollutant other than particulatem matter, the facility must be modeled according to the methods required under 40 CFR Section 52.21(l).	Title I Condition: 40 CFR 52.21(k) (changes covered by modeling limits)
D. CONTROL EQUIPMENT OPERATION (CE001 - fabric filter)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: 40 CFR Section 52.21(k) (use of control required to meet modeling limit)
Total Particulate Matter: greater than or equal to 80 percent control efficiency	Minn. R. 7011.1005, subp 3(E)
Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(k)
Pressure Drop: greater than or equal to 0.1 inches of water column and less than or equal to 8.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(k) limit
Recordkeeping of Visible Emissions or Pressure Drop: The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified herein.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k) limit

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Recordkeeping of Corrective Actions: If visible emissions are observed, or if the recorded pressure drop is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for the fabric filter and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k) limit

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Subject Item: **SV 002 New Corn Receiving Area**

Associated Items: EU 003 Corn Receiving (multiple components)

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 3.62 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit)
Particulate Matter < 10 micron: less than or equal to 3.62 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.010 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 10 percent opacity	Minn. R. 7011.1005, subp. 3(D)
Opacity: less than or equal to 5 percent opacity from fugitive emissions (emissions directly from the receiving pit, not collected by ductwork to the fabric filter)	Minn. R. 7011.1005, subp. 3(A)
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Visible Emissions: The Permittee shall check the stack (outlet of CE060) for any visible emissions, or, during inclement weather, read and record the pressure drop across the baghouse, two (2) times per calendar week, when the emission unit is in operation.	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Performance Test: due before end of each 60 months starting 01/31/2003 to measure total paticulate matter emissions at the stack. The first test is due January 31, 2003, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1)Title I Condition: Testing for 40 CFR Section 52.21(j) limit (2) Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits (1&2) Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 01/31/2003 to measure PM10 emissions at the stack. The first test is due January 31, 2003, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1)Title I Condition: Testing for 40 CFR Section 52.21(j) limit (2) Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits (1&2) Minn. R. 7017.2020, subp. 1
C. EMISSION UNIT OPERATION (EU003)	hdr
Clean up commodities spilled on the driveway and other facility property as required to minimize fugitive emissions.	Minn. R. 7011.1005, subp. 1(A)
EU003 shall not be operated between the hours of 8:00 p.m. and 6:00 a.m.	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
EU003 may not be operated simultaneously with EU001.	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Recordkeeping: The Permittee shall keep complete descriptions of each piece of equipment described by EU003. The description shall include the manufacturer, model number, capacity, and date of original installation. The description shall also identify each piece of equipment using a unique identification (ID) number. The Permittee shall submit updated versions of these descriptions with the annual Equipment List submittal (see Table B).	Title I Condition: 40 CFR Section 52.21(j) & (k) (Recordkeeping of changes covered under BACT and modeling limits)
The Permittee may make changes to the receiving equipment, provided the changes are in compliance with all permit requirements. Changes allowed may include replacing individual components with similar components, moving or changing the configuration of components, or adding new components of the type listed in the most recently submitted Equipment List (see Table B). If a change would increase the capacity of the operation, trigger an applicable limit that is not contained in this permit, or would cause the existing emission limits to be unachievable, or would cause the emission of a different regulated pollutant (other than particulate matter), the change must go through the appropriate procedures under Minn. R. ch. 7007. If a change would require an increase in the PM10 emission limit or cause the emission of a pollutant other than particulate matter, the facility must be modeled according to the methods required under 40 CFR Section 52.21(l).	Title I Condition: 40 CFR 52.21(j) & (k) (changes covered by BACT and modeling limits)
D. CONTROL EQUIPMENT OPERATION (CE060 - fabric filter)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: CFR Section 52.21(j) (BACT for EU003); 40 CFR Section 52.21(k)
Total Particulate Matter: greater than or equal to 99 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(j) [Also meets the requirements of Minn. R. 7011.1005, subp. 3(E)]

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Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(j) & (k)
Pressure Drop: greater than or equal to 0.1 inches of water column and less than or equal to 10.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Visible Emissions or Pressure Drop: The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified herein.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Corrective Actions: If visible emissions are observed, or if the recorded pressure drop is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for the fabric filter and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)

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Subject Item: **SV 003 Corn Cleaner Transfer**

Associated Items: EU 004 Corn Cleaner Transfer (multiple components)

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.71 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit)
Particulate Matter < 10 micron: less than or equal to 0.71 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Secrion 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.010 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 10 percent opacity	Minn. R. 7011.1005, subp. 3(D)
Opacity: less than or equal to 5 percent opacity from fugitive emissions (emissions directly from EU004, not collected by ductwork to the fabric filter)	Minn. R. 7011.1005, subp. 3(A)
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Visible Emissions: The Permittee shall check the stack (outlet of CE004) for any visible emissions, or, during inclement weather, read and record the pressure drop across the baghouse, two (2) times per calendar week, when the emission unit is in operation.	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Performance Test: due before end of each 60 months starting 09/26/2005 to measure total particulate matter at the stack. The first test is due September 26, 2005, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1) Title I Condition: Testing for 40 CFR Section 52.21(j) limit (2)Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits and Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 09/26/2005 to measure PM10 emissions at the stack. The first test is due September 26, 2005, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1) Title I Condition: Testing for 40 CFR Section 52.21(j) limit (2)Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits and Minn. R. 7017.2020, subp. 1
C. EMISSION UNIT OPERATION (EU004)	hdr
Recordkeeping: The Permittee shall keep complete descriptions of each piece of equipment described by EU004. The description shall include the manufacturer, model number, capacity, and date of original installation. The description shall also identify each piece of equipment using a unique identification (ID) number. The Permittee shall submit updated versions of these descriptions with the Annual Equipment List Submittal (see Table B).	Title I Condition: 40 CFR 52.21(j) & (k) (changes covered by BACT and modeling limits)
The Permittee may make changes to the corn cleaner transfer equipment, provided the changes are in compliance with all permit requirements. Changes allowed may include replacing individual components with similar components, moving or changing the configuration of components, or adding new components of the type listed in the most recently submitted Equipment List (see Table B). If a change would increase the capacity of the operation, trigger an applicable limit that is not contained in this permit, or would cause the existing emission limits to be unachievable, or would cause the emission of a different regulated pollutant (other than particulate matter), the change must go through the appropriate procedures under Minn. R. ch. 7007. If a change would require an increase in the PM10 emission limit or would cause the emission of a pollutant other than particulate matter, the facility must be modeled according to the methods required under 40 CFR Section 52.21(l).	Title I Condition: 40 CFR 52.21(j) & (k) (changes covered by BACT and modeling limits)
Process Throughput: less than or equal to 509.7 tons/hour using 24-hour Block Average of corn, based on a 56 pound bushel. This is equivalent to 18,204 bushels per hour. Downtime of 15 minutes or more is not to be counted as operating time.	Minn. R. 7017.2025
Recordkeeping of Throughput: Each day, calculate the amount of corn processed for the previous day, in bushels per hour. Divide the total amount of corn by the hours of operating time. Do not count downtime of 15 minutes or more as operating time.	Minn. R. 7007.0800, subp. 5
D. CONTROL EQUIPMENT OPERATION (CE004 - fabric filter)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: CFR Section 52.21(j) (BACT for EU004); 40 CFR Section 52.21(k)
Total Particulate Matter: greater than or equal to 99 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(j) [Also meets the requirements of Minn. R. 7011.1005, subp. 3(E)]

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Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(j) & (k)
Pressure Drop: greater than or equal to 0.1 inches of water column and less than or equal to 10.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Visible Emissions or Pressure Drop: The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified herein.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Corrective Actions: If visible emissions are observed, or if the recorded pressure drop is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for the fabric filter and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)

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Subject Item: **SV 004 Corn Cleaner**

Associated Items: EU 005 Corn Cleaner

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.46 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit)
Particulate Matter < 10 micron: less than or equal to 0.46 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.010 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 10 percent opacity	Minn. R. 7011.1005, subp. 3(D)
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Visible Emissions: The Permittee shall check the stack (outlet of CE044) for any visible emissions, or, during inclement weather, read and record the pressure drop across the baghouse, two (2) times per calendar week, when the emission unit is in operation.	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Performance Test: due before end of each 60 months starting 09/26/2005 to measure total particulate matter emissions at the stack. The first test is due September 26, 2005, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1) Title I Condition: Testing for 40 CFR Section 52.21(j) limit (2)Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits and Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 09/26/2005 to measure PM10 emissions at the stack. The first test is due September 26, 2005, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1) Title I Condition: Testing for 40 CFR Section 52.21(j) limit (2)Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits and Minn. R. 7017.2020, subp. 1
C. EMISSION UNIT OPERATION (EU005)	hdr
Process Throughput: less than or equal to 537.94 tons/hour using 24-hour Block Average of corn, based on a 56 pound bushel. This is equivalent to 19,212 bushels per hour. Downtime of 15 minutes or more is not to be counted as operating time.	Minn. R. 7017.2025
Recordkeeping of Throughput: Each day, calculate the amount of corn processed for the previous day, in bushels per hour. Divide the total amount of corn by the hours of operating time. Do not count downtime of 15 minutes or more as operating time.	Minn. R. 7007.0800, subp. 5
D. CONTROL EQUIPMENT OPERATION (CE044 - fabric filter)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: CFR Section 52.21(j) (BACT for EU005); 40 CFR Section 52.21(k)
Total Particulate Matter: greater than or equal to 99 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(j) [Also meets the requirements of Minn. R. 7011.1005, subp. 3(E)]
Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(j) & (k)
Pressure Drop: greater than or equal to 0.1 inches of water column and less than or equal to 10.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Visible Emissions or Pressure Drop: The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified herein.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Corrective Actions: If visible emissions are observed, or if the recorded pressure drop is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for the fabric filter and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)

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Subject Item: **SV 005 Fines Storage Bin**

Associated Items: EU 006 Fines Storage Bin

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.06 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit)
Particulate Matter < 10 micron: less than or equal to 0.06 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.012 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 10 percent opacity	Minn. R. 7011.1005, subp. 3(D)
Opacity: less than or equal to 5 percent opacity from fugitive emissions (emissions directly from the bin, not collected by ductwork to the fabric filter)	Minn. R. 7011.1005, subp. 3(A)
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Visible Emissions: The Permittee shall check the stack (outlet of CE062) for any visible emissions, or, during inclement weather, read and record the pressure drop across the baghouse, two (2) times per calendar week, when the emission unit is in operation.	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Performance Test: due before end of each 60 months starting 09/26/2005 to measure total particulate matter emissions at the stack. The first test is due September 26, 2005, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1) Title I Condition: Testing for 40 CFR Section 52.21(j) limit (2)Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits and Minn. R. Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 09/26/2005 to measure PM10 emissions at the stack. The first test is due September 26, 2005, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1) Title I Condition: Testing for 40 CFR Section 52.21(j) limit (2)Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits and Minn. R. Minn. R. 7017.2020, subp. 1
C. EMISSION UNIT OPERATION (EU006)	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)
Process Throughput: less than or equal to 48950 bushel/hour using 24-hour Block Average of corn fines. Downtime of 15 minutes or more is not to be counted as operating time.	Minn. R. 7017.2025
Recordkeeping of Throughput: Each day, calculate the amount of corn fines processed for the previous day, in bushels per hour. Divide the total amount of corn fines by the hours of operating time. Do not count downtime of 15 minutes or more as operating time.	Minn. R. 7007.0800, subp. 5
D. CONTROL EQUIPMENT OPERATION (CE062 - fabric filter)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: CFR Section 52.21(j) (BACT for EU006); 40 CFR Section 52.21(k)
Total Particulate Matter: greater than or equal to 99 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(j) [Also meets the requirements of Minn. R. 7011.1005, subp. 3(E)]
Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(j) & (k)
Pressure Drop: greater than or equal to 0.1 inches of water column and less than or equal to 10.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Visible Emissions or Pressure Drop: The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified herein.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Corrective Actions: If visible emissions are observed, or if the recorded pressure drop is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for the fabric filter and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)

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Subject Item: **SV 006 Millhouse Equipment**

Associated Items: EU 007 Existing Millhouse equipment (multiple components)

EU 008 New Millhouse equipment (multiple components)

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 6.00 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit)
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas from control equipment, or the allowable concentration at the actual flow rate, as described in Minn. R. 7011.0735, or the allowable emission rate at the actual process weight rate, as described in Minn. R. 7011.0730.	Minn. R. 7011.0715, subp. 1(A)
Particulate Matter < 10 micron: less than or equal to 6.00 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.014 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
Sulfur Dioxide: less than or equal to 14.97 lbs/hour using 1-Hour Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Performance Test: due before end of each 60 months starting 09/26/2005 to measure total particulate matter emissions at the stack. The first test is due September 26, 2005, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1)Title I Condition: Testing for 40 CFR Section 52.21(j) limit (2)Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits and (1&2) Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 09/26/2005 to measure PM10 emissions at the stack. The first test is due September 26, 2005, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1)Title I Condition: Testing for 40 CFR Section 52.21(j) limit (2)Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits and (1&2) Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 07/31/2003 to measure SO2 emissions at the stack. The tests shall be conducted at an interval not to exceed 60 months between test dates. The first test is due July 31, 2003, then every 60 months thereafter. For additional applicable performance test requirements, see 'General Performance Test Requirements" in Table A, Subject Item "Total Facility".	Title I Condition: Testing for 40 CFR Section 52.21(j) & (k) limits and Minn. R. 7017.2020, subp. 1
C. EMISSION UNIT OPERATION (EU007, EU008)	hdr
Recordkeeping: The Permittee shall keep complete descriptions of each piece of equipment described by EU007 and EU008. The description shall include the manufacturer, model number, capacity, and date of original installation. The description shall also identify each piece of equipment using a unique identification (ID) number. The Permittee shall submit updated versions of these descriptions with the annual Equipment List submittal (see Table B).	Title I Condition: 40 CFR 52.21(j) & (k) (changes covered by BACT and modeling limits)
The Permittee may make changes to the milling equipment, provided the changes are in compliance with all permit requirements. Changes allowed may include replacing individual components with similar components, moving or changing the configuration of components, or adding new components of the type listed in the most recently submitted Equipment List (see Table B). If a change would increase the capacity of the operation, trigger an applicable limit that is not contained in this permit, or would cause the existing emission limits to be unachievable, or would cause the emission of a different regulated pollutant (other than particulate matter or SO2), the change must go through the appropriate procedures under Minn. R. ch. 7007. If a change would require an increase in the PM10 or SO2 emission limit or would cause the emission of a pollutant other than particulat matter or SO2, the facility must be modeled according to the methods required under 40 CFR Section 52.21(l).	Title I Condition: 40 CFR 52.21(j) & (k) (changes covered by BACT and modeling limits)
D. CONTROL EQUIPMENT OPERATION (CE045 - packed gas absorption column)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: CFR Section 52.21(j) (BACT for EU008); 40 CFR Section 52.21(k)
Total Particulate Matter: greater than or equal to 90 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(j)

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Particulate Matter < 10 micron: greater than or equal to 90 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(j) & (k)
Sulfur Dioxide: greater than or equal to 70 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(j) & (k)
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 8.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Water flow rate: greater than or equal to 850 gallons/minute and less than or equal to 1300 gallons/minute	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
pH of scrubbing liquid: greater than or equal to 8.0	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Pressure Drop: Once each operating day, read and record pressure drop.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Water Flow Rate: Once each operating day, read and record the water flow rate.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Scrubber Water pH: Once each operating day, read and record the ph.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Corrective Actions: If the recorded pressure drop, water flow rate, or scrubber water ph is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for CE045 and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)

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Subject Item: **SV 007 Starch Dryer**

Associated Items: EU 009 Starch Dryer #1

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.04 grains/dry standard cubic foot	Title I Condition: To avoid classification of a previous modification as major under 40 CFR Section 52.21 [Also meets the requirements of Minn. R. 7011.0715, subp. 1(A)]
Total Particulate Matter: less than or equal to 7.94 lbs/hour using 24-hour Block Average This is a state only requirement and is not enforceable under the Clean Air Act by the EPA Administrator or by the citizens.	Minn. R. 7009.0200
Particulate Matter < 10 micron: less than or equal to 0.024 grains/dry standard cubic foot	Title I Condition: To avoid classification of a previous modification as major under 40 CFR Section 52.21
Particulate Matter < 10 micron: less than or equal to 7.94 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.009 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
Sulfur Dioxide: less than or equal to 23.93 lbs/hour using 1-Hour Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Performance Test: due before end of each 60 months starting 01/31/2003 to measure total particulate matter emissions at the stack. The first test is due January 31, 2003, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1) Testing for Minn. R. 7009.0200 limit; (1&2) Title I Condition: Testing for synthetic minor limits; (2&3) Title I Condition: Testing for 40 CFR Section 52.21(k) limits; (1,2,&3) Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 01/31/2003 to measure PM10 emissions at the stack. The first test is due January 31, 2003, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1) Testing for Minn. R. 7009.0200 limit; (1&2) Title I Condition: Testing for synthetic minor limits; (2&3) Title I Condition: Testing for 40 CFR Section 52.21(k) limits; (1,2,&3) Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 01/31/2003 to measure SO2 emissions at the stack. The first test is due January 31, 2003, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1) Testing for Minn. R. 7009.0200 limit; (1&2) Title I Condition: Testing for synthetic minor limits; (2&3) Title I Condition: Testing for 40 CFR Section 52.21(k) limits; (1,2,&3) Minn. R. 7017.2020, subp. 1
C. EMISSION UNIT OPERATION (EU009) - N/A	hdr
D. CONTROL EQUIPMENT OPERATION (CE006 - spray tower)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: CFR Section 52.21(k) (use of control required to meet modeling limits)
Total Particulate Matter: greater than or equal to 20 percent control efficiency	Title I Condition: Control required to avoid classification of a previous modification as major under 40 CFR Section 52.21
Particulate Matter < 10 micron: greater than or equal to 20 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(k)
Sulfur Dioxide: greater than or equal to 70 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(k)
Pressure Drop: greater than or equal to 1.0 inches of water column and less than or equal to 10.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(k)
Water flow rate: greater than or equal to 400 gallons/minute and less than or equal to 600 gallons/minute	Title I Condition: Monitoring for 40 CFR Section 52.21(k)
pH of scrubber water: greater than or equal to 2.0 and less than or equal to 6.0	Title I Condition: Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Pressure Drop: Once each operating day, read and record pressure drop.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Water Flow Rate: Once each operating day, read and record the water flow rate.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)

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Recordkeeping of Scrubber Water pH: Once each operating day, read and record the scrubber water pH.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Corrective Actions: If the recorded pressure drop, water flow rate, or pH is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for CE006 and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)

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Subject Item: **SV 008 Product Loadout**

Associated Items: EU 010 Bin #1

EU 011 Bin #2

EU 012 Bin #3

EU 013 Bin #4

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.35 lbs/hour using 24-hour Block Average This is a state only requirement and is not enforceable under the Clean Air Act by the EPA Administrator or by the citizens.	Minn. R. 7009.0200
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas from control equipment, or the allowable concentration at the actual flow rate, as described in Minn. R. 7011.0735, or the allowable emission rate at the actual process weight rate, as described in Minn. R. 7011.0730.	Minn. R. 7011.0715, subp. 1(A)
Particulate Matter < 10 micron: less than or equal to 0.35 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.010 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Visible Emissions: The Permittee shall check the stack (outlet of CE011) for any visible emissions, or, during inclement weather, read and record the pressure drop across the baghouse, once each day of operation.	Title I Condition: Monitoring for 40 CFR Section 52.21(k) limit
C. EMISSION UNIT OPERATION (EU010 - EU013) - N/A	hdr
D. CONTROL EQUIPMENT OPERATION (CE011 - fabric filter)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: CFR Section 52.21(k) (use of control required to meet modeling limit)
Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(k)
Pressure Drop: greater than or equal to 0.1 inches of water column and less than or equal to 12.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(k) limit
Recordkeeping of Visible Emissions or Pressure Drop: The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified herein.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k) limit
Recordkeeping of Corrective Actions: If visible emissions are observed, or if the recorded pressure drop is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for the fabric filter and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k) limit

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Subject Item: **SV 009 Germ Dryer**

Associated Items: EU 015 Germ Dryer #1

EU 017 Germ Dryer #2

EU 019 Germ Dryer #3

EU 020 Germ Dryer #4

EU 022 Germ Dryer #5

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 2.5 lbs/hour using 24-hour Block Average This is a state only requirement and is not enforceable under the Clean Air Act by the EPA Administrator or by the citizens.	Minn. R. 7009.0200
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas from control equipment, or the allowable concentration at the actual flow rate, as described in Minn. R. 7011.0735, or the emission rate at the actual process weight rate, as described in Minn. R. 7011.0730.	Minn. R. 7011.0715, subp. 1(A)
Particulate Matter < 10 micron: less than or equal to 2.5 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.016 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
Sulfur Dioxide: less than or equal to 5.98 lbs/hour using 1-Hour Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Volatile Organic Compounds: less than or equal to 6.6 lbs/hour measured as total mass of VOC.	Consent Decree Para. 39
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Performance Test: due 180 days after Permit Issuance of permit 007 to measure VOC emissions.	Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 01/31/2003 to measure total particulate matter emissions at the stack. The first test is due January 31, 2003, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1) Testing for 7009.0200 and 7011.0715 limits; (2&3) Title I Condition: Testing for 40 CFR Section 52.21(k) limits; (1,2,&3) Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 01/31/2003 to measure PM10 emissions at the stack. The first test is due January 31, 2003, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1) Testing for 7009.0200 and 7011.0715 limits; (2&3) Title I Condition: Testing for 40 CFR Section 52.21(k) limits; (1,2,&3) Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 01/31/2003 to measure SO2 emissions at the stack. The first test is due January 31, 2003, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1) Testing for 7009.0200 and 7011.0715 limits; (2&3) Title I Condition: Testing for 40 CFR Section 52.21(k) limits; (1,2,&3) Minn. R. 7017.2020, subp. 1
C. EMISSION UNIT OPERATION (EU015, EU017, EU019, EU020, EU022) - N/A	hdr
D. CONTROL EQUIPMENT OPERATION (CE012 - spray tower)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: CFR Section 52.21(k) (use of control required to meet modeling limits)
Particulate Matter < 10 micron: greater than or equal to 20 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(k)
Sulfur Dioxide: greater than or equal to 70 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(k)
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 6.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(k)
Water flow rate: greater than or equal to 800 gallons/minute and less than or equal to 1400 gallons/minute	Title I Condition: Monitoring for 40 CFR Section 52.21(k)

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Scrubber water pH: greater than or equal to 6.0 and less than or equal to 8.0	Title I Condition: Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Pressure Drop: Once each operating day, read and record pressure drop.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Water Flow Rate: Once each operating day, read and record the water flow rate.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of scrubber water pH: Once each operating day, read and record the scrubber water pH.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Corrective Actions: If the recorded pressure drop, water flow rate, or pH is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for CE012 and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)

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Subject Item: **SV 010 Feedhouse Equipment**

Associated Items: EU 064 Existing Feedhouse Equipment (multiple components)

EU 065 New Feedhouse Equipment (multiple components)

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 6.00 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit)
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas from control equipment, or the allowable concentration at the actual flow rate, as described in Minn. R. 7011.0735, or the allowable emission rate at the actual process weight rate, as described in Minn. R. 7011.0730.	Minn. R. 7011.0715, subp. 1(A)
Particulate Matter < 10 micron: less than or equal to 6.00 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.014 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
Sulfur Dioxide: less than or equal to 8.98 lbs/hour using 1-Hour Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Performance Test: due before end of each 60 months starting 01/31/2003 to measure total particulate matter emissions at the stack. The first test is due January 31,2003, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1)Title I Condition: Testing for 40 CFR Section 52.21(j) limit (2&3) Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits (1-3) Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 01/31/2003 to measure PM10 emissions at the stack. The first test is due January 31,2003, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1)Title I Condition: Testing for 40 CFR Section 52.21(j) limit (2&3) Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits (1-3) Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 01/31/2003 to measure SO2 emissions at the stack. The first test is due January 31,2003, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1)Title I Condition: Testing for 40 CFR Section 52.21(j) limit (2&3) Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits (1-3) Minn. R. 7017.2020, subp. 1
C. EMISSION UNIT OPERATION (EU064, EU065)	hdr
Recordkeeping: The Permittee shall keep complete descriptions of each piece of equipment described by EU064 and EU065. The description shall include the manufacturer, model number, capacity, and date of original installation. The description shall also identify each piece of equipment using a unique identification (ID) number. The Permittee shall submit updated versions of these descriptions with the annual Equipment List submittal (see Table B).	Title I Condition: 40 CFR 52.21(j) & (k) (changes covered by BACT and modeling limits)
The Permittee may make changes to the feedhouse equipment, provided the changes are in compliance with all permit requirements. Changes allowed may include replacing individual components with similar components, moving or changing the configuration of components, or adding new components of the type listed in the most recently submitted Equipment List (see Table B). If a change would increase the capacity of the operation, trigger an applicable limit that is not contained in this permit, or would cause the existing emission limits to be unachievable, or would cause the emission of a different regulated pollutant (other than PM, PM10, or SO2), the change must go through the appropriate procedures under Minn. R. ch. 7007. If a change would require an increase in the PM10 or SO2 emission limit or would cause the emission of a pollutant other than particulate matter or SO2, the facility must be modeled according to the methods required under 40 CFR Section 52.21(l).	Title I Condition: 40 CFR 52.21(j) & (k) (changes covered by BACT and modeling limits)
D. CONTROL EQUIPMENT OPERATION (CE046 - packed gas absorption column)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: CFR Section 52.21(j) (BACT for new feedhouse equipment, EU065)
Total Particulate Matter: greater than or equal to 90 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(j)

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Particulate Matter < 10 micron: greater than or equal to 90 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(j) & (k)
Sulfur Dioxide: greater than or equal to 70 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(j) & (k)
Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 8.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Water flow rate: greater than or equal to 600 gallons/minute and less than or equal to 850 gallons/minute	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
pH of scrubbing liquid: greater than or equal to 8.0	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Pressure Drop: Once each operating day, read and record pressure drop.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Water Flow Rate: Once each operating day, read and record the water flow rate.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Scrubber Water pH: Once each operating day, read and record the pH.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Corrective Actions: If the recorded pressure drop, water flow rate, or scrubber water pH is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for CE045 and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)

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Subject Item: **SV 011 Gluten Dryer**

Associated Items: EU 028 Gluten Dryer #1

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 17.5 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit)
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas from control equipment, or the allowable concentration at the actual flow rate, as described in Minn. R. 7011.0735, or the emission rate at the actual process weight rate, as described in Minn. R. 7011.0730.	Minn. R. 7011.0610, subp. 1(A)(1)
Particulate Matter < 10 micron: less than or equal to 17.5 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.019 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity , except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0610, subp. 1(A)(2)
Sulfur Dioxide: less than or equal to 15.0 lbs/hour using 1-Hour Average . This limit applies until the construction of the biogas project is complete (Permit Action 007).	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
Sulfur Dioxide: less than or equal to 11.0 lbs/hour using 3-hour Average . This limit applies after construction of the biogas project is complete (Permit Action 007).	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
Nitrogen Oxides: less than or equal to 3.07 lbs/hour using an annual average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
Carbon Monoxide: less than or equal to 90.06 lbs/hour using 1-Hour Average . This limit applies until the construction of the biogas project is complete (Permit Action 007).	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
Carbon Monoxide: less than or equal to 3.9 lbs/hour using 3-hour Average . This limit applies after the construction of the biogas project is complete (Permit Action 007).	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Performance Test: due before end of each 36 months starting 09/02/2002 to measure NOx emissions at the stack. Initial performance testing was completed on 9/02/02. For additional applicable performance test requirements, see 'General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1-2)Title I Condition: Testing for 40 CFR Section 52.21(j) & (k) limits (1-2) Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 36 months starting 09/02/2002 to measure CO emissions at the stack. Initial performance testing was completed on 9/02/02. For additional applicable performance test requirements, see 'General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1-2)Title I Condition: Testing for 40 CFR Section 52.21(j) & (k) limits (1-2) Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 12/06/2005 to measure PM10 emissions at the stack. The first test is due December 6, 2005, then every 60 months thereafter.	(1) Title I Condition: Testing for 40 CFR Section 52.21(j) & Minn. R. 7011.0610 limits; (2-3) Title I Condition: Testing for 40 CFR Section 52.21(j) & (k) limits; (1-3) Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 12/06/2005 to measure total particulate matter emissions at the stack. The first test is due December 6, 2005, then every 60 months thereafter.	(1) Title I Condition: Testing for 40 CFR Section 52.21(j) & Minn. R. 7011.0610 limits; (2-3) Title I Condition: Testing for 40 CFR Section 52.21(j) & (k) limits; (1-3) Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 12/06/2005 to measure SO2 emissions at the stack. The first test is due December 6, 2005, then every 60 months thereafter.	(1) Title I Condition: Testing for 40 CFR Section 52.21(j) & Minn. R. 7011.0610 limits; (2-3) Title I Condition: Testing for 40 CFR Section 52.21(j) & (k) limits; (1-3) Minn. R. 7017.2020, subp. 1
C. EMISSION UNIT OPERATION (EU028)	hdr
Fuel Use: Limited to pipeline quality natural gas and anaerobic digester biogas generated by the facility's wastewater treatment system.	Title I Condition: 40 CFR Section 52.21(j) (BACT for NOX, CO)
Process Throughput: less than or equal to 30910 lbs/hour using 30-day Rolling Average of dried gluten. Downtime of 15 minutes or more is not to be counted as operating time.	Minn. R. 7017.2025
Recordkeeping of Throughput: Each day, calculate the amount of gluten loaded into railcars for the previous day and for the previous 30-day period. Divide the total amount of gluten loaded for the previous 30-day period by the hours of operating time during the previous 30-day period. Do not count downtime of 15 minutes or more as operating time.	Minn. R. 7007.0800, subp. 5

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D. CONTROL EQUIPMENT OPERATION (CE021 - spray tower)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: CFR Section 52.21(j) (BACT for PM, PM10, SO2)
Total Particulate Matter: greater than or equal to 20 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(j)
Particulate Matter < 10 micron: greater than or equal to 20 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(j) & (k)
Sulfur Dioxide: greater than or equal to 90 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(j) & (k)
Pressure Drop: greater than or equal to 1.0 inches of water column and less than or equal to 10.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Water flow rate: greater than or equal to 600 gallons/minute and less than or equal to 1200 gallons/minute	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
pH of scrubber water: greater than or equal to 6.0 and less than or equal to 8.0	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Pressure Drop: Once each operating day, read and record pressure drop.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Water Flow Rate: Once each operating day, read and record the water flow rate.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Scrubber Water pH: Once each operating day, read and record the pH.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Corrective Actions: If the recorded pressure drop, water flow rate, or pH is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for CE021 and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)

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Subject Item: **SV 012 Carbon Furnace #1**

Associated Items: EU 034 Carbon Furnace #1

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 1.7 lbs/hour using 24-hour Block Average This is a state only requirement and is not enforceable under the Clean Air Act by the EPA Administrator or by the citizens.	Minn. R. 7009.0200
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas from control equipment, or the allowable concentration at the actual flow rate, as described in Minn. R. 7011.0735, or the emission rate at the actual process weight rate, as described in Minn. R. 7011.0730.	Minn. R. 7011.0610, subp. 1(A)(1)
Particulate Matter < 10 micron: less than or equal to 1.7 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.040 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity , except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0610, subp. 1(A)(2)
Sulfur Dioxide: less than or equal to 1.11 lbs/hour using 1-Hour Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Nitrogen Oxides: less than or equal to 1.87 lbs/hour using an annual average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Carbon Monoxide: less than or equal to 223.0 lbs/hour using 1-Hour Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Performance Test: due before end of each 36 months starting 01/09/2004 to measure particulate matter emissions at the stack. The first test is due January 9, 2004, and every 36 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	Testing for Minn. R. 7009.0200 and 7011.0610 limits; Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 02/28/2003 to measure NOX emissions at the stack. The first test is due February 28, 2003, then every 60 months thereafter. For additional applicable performance test requirements, see 'General Performance Test Requirements" in Table A, Subject Item "Total Facility".	Title I Condition: Testing for 40 CFR Section 52.21(k) limit; Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 02/28/2003 to measure SO2 emissions at the stack. The first test is due February 28, 2003, then every 60 months thereafter. For additional applicable performance test requirements, see 'General Performance Test Requirements" in Table A, Subject Item "Total Facility".	Title I Condition: Testing for 40 CFR Section 52.21(k) limit; Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 36 months starting 01/09/2004 to measure PM10 emissions at the stack. The first test is due January 9, 2004, then every 36 months thereafter. For additional applicable performance test requirements, see 'General Performance Test Requirements" in Table A, Subject Item "Total Facility".	Title I Condition: Testing for 40 CFR Section 52.21(k) limits; Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 01/09/2006 to measure CO emissions at the stack. The first test is due January 9, 2006, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	Title I Condition: Testing for 40 CFR Section 52.21(k) limits; Minn. R. 7017.2020, subp. 1
C. CONTROL EQUIPMENT OPERATION (CE027 - venturi scrubber)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: 40 CFR Section 52.21(k) (use of control equipment required to meet modeling limit)
Particulate Matter < 10 micron: greater than or equal to 90 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(k)
Pressure Drop: greater than or equal to 2.0 inches of water column and less than or equal to 25.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(k)
Water flow rate: greater than or equal to 25 gallons/minute and less than or equal to 40 gallons/minute	Title I Condition: Monitoring for 40 CFR Section 52.21(k)

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Recordkeeping of Pressure Drop: Once each operating day, read and record pressure drop.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Water Flow Rate: Once each operating day, read and record the water flow rate.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Corrective Actions: If the recorded pressure drop or water flow rate is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for CE027 and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)

Facility Name: ADM Corn Processing - Marshall

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Subject Item: **SV 013 Carbon Furnace #2**

Associated Items: EU 035 Carbon Furnace #2

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.7 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit)
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas from control equipment, or the allowable concentration at the actual flow rate, as described in Minn. R. 7011.0735, or the emission rate at the actual process weight rate, as described in Minn. R. 7011.0730.	Minn. R. 7011.0610, subp. 1(A)(1)
Particulate Matter < 10 micron: less than or equal to 0.7 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.007 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity , except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0610, subp. 1(A)(2)
Sulfur Dioxide: less than or equal to 2.00 lbs/hour using 1-Hour Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
Nitrogen Oxides: less than or equal to 3.38 lbs/hour using an annual average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
Carbon Monoxide: less than or equal to 4.86 lbs/hour using 1-Hour Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
Volatile Organic Compounds: less than or equal to 7.6 lbs/hour measured as total mass of VOC.	Consent Decree para. 39
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Performance Test: due 180 days after Permit Issuance of Permit 007 to measure VOC emissions.	Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 03/01/2006 to measure total particulate matter emissions at the stack. The first test is due on or before March 1, 2006, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1)Title I Condition: Testing for 40 CFR Section 52.21(j) limit (2-5)Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits (1-5) Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 03/01/2006 to measure PM10 emissions. The first test is due on or before March 1, 2006, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1)Title I Condition: Testing for 40 CFR Section 52.21(j) limit (2-5)Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits (1-5) Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 03/01/2006 to measure SO2 emissions at the stack. The first test is due on or before March 1, 2006, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1)Title I Condition: Testing for 40 CFR Section 52.21(j) limit (2-5)Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits (1-5) Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 03/01/2006 to measure NOx emissions at the stack. The first test is due on or before March 1, 2006, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1)Title I Condition: Testing for 40 CFR Section 52.21(j) limit (2-5)Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits (1-5) Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 36 months starting 03/01/2004 to measure CO emissions at the stack. The first test is due on or before March 1, 2004, then every 36 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1)Title I Condition: Testing for 40 CFR Section 52.21(j) limit (2-5)Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits (1-5) Minn. R. 7017.2020, subp. 1
C. EMISSION UNIT OPERATION (EU035)	hdr
Fuel Use: Limited to natural gas only.	Title I Condition: 40 CFR Section 52.21(j) (BACT for NOX, CO, & SO2)
D. CONTROL EQUIPMENT OPERATION (CE028 - venturi/impinjet scrubber)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: 40 CFR Section 52.21(j) (BACT for PM, PM10)

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Total Particulate Matter: greater than or equal to 90 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(j)
Particulate Matter < 10 micron: greater than or equal to 90 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(j) & (k)
Venturi Pressure Drop: greater than or equal to 10.0 inches of water column and less than or equal to 30.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Venturi Water flow rate: greater than or equal to 25 gallons/minute and less than or equal to 40 gallons/minute	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Impinjet Pressure Drop: greater than or equal to 1.0 inches of water column and less than or equal to 15.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Impinjet Water flow rate: greater than or equal to 175 gallons/minute and less than or equal to 250 gallons/minute	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Pressure Drop: Once each operating day, read and record the venturi and impinjet pressure drop.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Water Flow Rate: Once each operating day, read and record the venturi and impinjet water flow rates.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Corrective Actions: If the recorded pressure drops or water flow rates are outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for CE028 and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)
E. CONTROL EQUIPMENT OPERATION (CE081 - afterburner)	hdr
Temperature: greater than or equal to 1400 degrees F as a three-hour rolling average at the Combustion Chamber unless a new minimum temperature is required set pursuant to Minn. R. 7017.2025, subp. 3. If a new minimum temperature is required to be set, it will be based on the average temperature recorded during the most recent MPCA approved performance test where compliance for VOC emissions was demonstrated. If the three-hour rolling average temperature drops below the minimum temperature limit, the VOC used during that time shall be considered uncontrolled until the average minimum temperature limit is once again achieved. This shall be reported as a deviation.	Minn. R. 7007.0800, subp. 2 and 14
The Permittee shall operate and maintain the thermal oxidizer any time that any process equipment controlled by the thermal oxidizer is in operation. The Permittee shall document periods of non-operation of the control equipment.	Minn. R. 7007.0800, subp. 2 and 14
The Permittee shall maintain a continuous hard copy readout or computer disk file of the temperature readings and calculated three hour rolling average temperatures for the combustion chamber.	Minn. R. 7007.0800, subp. 4 and 5
Daily Monitoring: The Permittee shall physically verify the operation of the temperature recording device at least once each operating day to verify that it is working and recording properly. The Permittee shall maintain a written record of the daily verifications.	Minn. R. 7007.0800, subp. 4 and 5
Monitoring Equipment: The Permittee shall install and maintain thermocouples to conduct temperature monitoring required by this permit. The monitoring equipment must be installed, in use, and properly maintained whenever operation of the monitored control equipment is required.	Minn. R. 7007.0800, subp. 4
The Permittee shall maintain and operate a thermocouple monitoring device that continuously indicates and records the combustion chamber temperature of the thermal oxidizer. The monitoring device shall have a margin of error less than the greater of +/- 0.75 percent of the temperature being measured or +/- 2.5 degrees Celsius. The recording device shall also calculate the three-hour rolling average combustion chamber temperature.	Minn. R. 7007.0800, subp. 4 and 5
Quarterly Inspections: At least once per calendar quarter, or as recommended by the manufacturer, the Permittee shall inspect the control equipment internal and external system components, including but not limited to the refractory, heat exchanger, and electrical systems. The Permittee shall maintain a written record of the inspection and any corrective actions taken resulting from the inspection.	Minn. R. 7007.0800, subp. 4, 5, and 14
Annual Calibration: The Permittee shall calibrate the temperature monitor at least annually and shall maintain a written record of the calibration and any action resulting from the calibration.	Minn. R. 7007.0800, subp. 4, 5, and 14
For periods when the thermal oxidizer is operated above the minimum combustion chamber temperature, the Permittee shall use either one of the following when completing calculations as required elsewhere in this permit: a. The overall control efficiency limit specified in this permit for this equipment (95%); or b. The overall control efficiency determined during the most recent MPCA approved performance test. If the tested efficiency is less than the efficiency limit in this permit, the Permittee must use the tested value in all calculations until the efficiency is demonstrated to be above the permit limit through a new test.	Minn. R. 7007.0800, subp. 4 and 5

Corrective Actions: If the temperature is below the minimum specified by this permit or if the thermal oxidizer or any of its components are found during the inspections to need repair, the Permittee shall take corrective action as soon as possible. Corrective actions shall return the temperature to at least the permitted minimum 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 thermal oxidizer. The Permittee shall keep a record of the type and date of any corrective action taken.	Minn. R. 7007.0800, subp. 4, 5, and 14
The Permittee shall operate and maintain the thermal oxidizer in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	Minn. R. 7007.0800, subp. 14

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **SV 014 Carbon Furnace #3**

Associated Items: EU 036 Carbon Furnace #3

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.7 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit)
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas from control equipment, or the allowable concentration at the actual flow rate, as described in Minn. R. 7011.0735, or the emission rate at the actual process weight rate, as described in Minn. R. 7011.0730.	Minn. R. 7011.0610, subp. 1(A)(1)
Particulate Matter < 10 micron: less than or equal to 0.7 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.007 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Volatile Organic Compounds: less than or equal to 7.6 lbs/hour measured as total mass of VOC.	Consent Decree para. 39
Opacity: less than or equal to 20 percent opacity , except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0610, subp. 1(A)(2)
Sulfur Dioxide: less than or equal to 2.00 lbs/hour using 1-Hour Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
Nitrogen Oxides: less than or equal to 3.38 lbs/hour using an annual average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
Carbon Monoxide: less than or equal to 4.86 lbs/hour using 1-Hour Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
Volatile Organic Compounds: less than or equal to 7.6 lbs/hour measured as total mass of VOC.	Minn. R. 7007.0200 and Consent Decree para. 39
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Performance Test: due 180 days after Permit Issuance of Permit 007 to measure VOC emissions.	Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 01/11/2006 to measure SO2 emissions at the stack. The first test is due January 11, 2006, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1)Title I Condition: Testing for 40 CFR Section 52.21(j) limit (2-5)Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits (1-5) Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 01/11/2006 to measure NOx emissions at the stack. The first test is due January 11, 2006, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1)Title I Condition: Testing for 40 CFR Section 52.21(j) limit (2-5)Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits (1-5) Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 01/11/2006 to measure CO emissions at the stack. The first test is due January 11, 2006, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1)Title I Condition: Testing for 40 CFR Section 52.21(j) limit (2-5)Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits (1-5) Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 01/11/2006 to measure total particulate matter emissions at the stack. The first test is due January 11, 2006, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1)Title I Condition: Testing for 40 CFR Section 52.21(j) limit (2-5)Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits (1-5) Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 01/11/2006 to measure PM10 emissions at the stack. The first test is due January 11, 2006, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1)Title I Condition: Testing for 40 CFR Section 52.21(j) limit (2-5)Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits (1-5) Minn. R. 7017.2020, subp. 1
C. EMISSION UNIT OPERATION (EU036)	hdr
Fuel Use: Limited to natural gas only.	Title I Condition: 40 CFR Section 52.21(j) (BACT for NOX, CO, & SO2)

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Process Throughput: less than or equal to 2087.5 lbs/hour using 24-hour Block Average of regenerated carbon. Down time of 15 minutes or more is not to be counted as operating time.	Minn. R. 7017.2025
Recordkeeping: Each day, calculate the previous day's usage rate of regenerated carbon, in pounds per hour. Divide the total pounds of regenerated carbon by the hours of operating time. Do not count downtime of 15 minutes or more as operating time.	Minn. R. 7007.0800, subp. 5
D. CONTROL EQUIPMENT OPERATION (CE029 - venturi/impinjet scrubber)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: 40 CFR Section 52.21(j) (BACT for PM, PM10)
Total Particulate Matter: greater than or equal to 90 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(j)
Particulate Matter < 10 micron: greater than or equal to 90 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(j) & (k)
Venturi Pressure Drop: greater than or equal to 10.0 inches of water column and less than or equal to 30.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Venturi Water flow rate: greater than or equal to 25 gallons/minute and less than or equal to 40 gallons/minute	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Impinjet Pressure Drop: greater than or equal to 1.0 inches of water column and less than or equal to 15.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Impinjet Water flow rate: greater than or equal to 175 gallons/minute and less than or equal to 250 gallons/minute	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Pressure Drop: Once each operating day, read and record the venturi and impinjet pressure drops.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Water Flow Rate: Once each operating day, read and record the venturi and impinjet water flow rates.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Corrective Actions: If the recorded pressure drops or water flow rates are outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for CE029 and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)
E. CONTROL EQUIPMENT OPERATION (CE082 - afterburner)	hdr
Temperature: greater than or equal to 1400 degrees F as a three-hour rolling average at the Combustion Chamber unless a new minimum temperature is required set pursuant to Minn. R. 7017.2025, subp. 3. If a new minimum temperature is required to be set, it will be based on the average temperature recorded during the most recent MPCA approved performance test where compliance for VOC emissions was demonstrated. If the three-hour rolling average temperature drops below the minimum temperature limit, the VOC used during that time shall be considered uncontrolled until the average minimum temperature limit is once again achieved. This shall be reported as a deviation.	Minn. R. 7007.0800, subp. 2 and 14
The Permittee shall operate and maintain the thermal oxidizer any time that any process equipment controlled by the thermal oxidizer is in operation. The Permittee shall document periods of non-operation of the control equipment.	Minn. R. 7007.0800, subp. 2 and 14
The Permittee shall maintain a continuous hard copy readout or computer disk file of the temperature readings and calculated three hour rolling average temperatures for the combustion chamber.	Minn. R. 7007.0800, subp. 4 and 5
Daily Monitoring: The Permittee shall physically verify the operation of the temperature recording device at least once each operating day to verify that it is working and recording properly. The Permittee shall maintain a written record of the daily verifications.	Minn. R. 7007.0800, subp. 4 and 5
Monitoring Equipment: The Permittee shall install and maintain thermocouples to conduct temperature monitoring required by this permit. The monitoring equipment must be installed, in use, and properly maintained whenever operation of the monitored control equipment is required.	Minn. R. 7007.0800, subp. 4
The Permittee shall maintain and operate a thermocouple monitoring device that continuously indicates and records the combustion chamber temperature of the thermal oxidizer. The monitoring device shall have a margin of error less than the greater of +/- 0.75 percent of the temperature being measured or +/- 2.5 degrees Celsius. The recording device shall also calculate the three-hour rolling average combustion chamber temperature.	Minn. R. 7007.0800, subp. 4 and 5
Quarterly Inspections: At least once per calendar quarter, or as recommended by the manufacturer, the Permittee shall inspect the control equipment internal and external system components, including but not limited to the refractory, heat exchanger, and electrical systems. The Permittee shall maintain a written record of the inspection and any corrective actions taken resulting from the inspection.	Minn. R. 7007.0800, subp. 4, 5, and 14

Annual Calibration: The Permittee shall calibrate the temperature monitor at least annually and shall maintain a written record of the calibration and any action resulting from the calibration.	Minn. R. 7007.0800, subp. 4, 5, and 14
For periods when the thermal oxidizer is operated above the minimum combustion chamber temperature, the Permittee shall use either one of the following when completing calculations as required elsewhere in this permit: a. The overall control efficiency limit specified in this permit for this equipment (95%); or b. The overall control efficiency determined during the most recent MPCA approved performance test. If the tested efficiency is less than the efficiency limit in this permit, the Permittee must use the tested value in all calculations until the efficiency is demonstrated to be above the permit limit through a new test.	Minn. R. 7007.0800, subp. 4 and 5
Corrective Actions: If the temperature is below the minimum specified by this permit or if the thermal oxidizer or any of its components are found during the inspections to need repair, the Permittee shall take corrective action as soon as possible. Corrective actions shall return the temperature to at least the permitted minimum 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 thermal oxidizer. The Permittee shall keep a record of the type and date of any corrective action taken.	Minn. R. 7007.0800, subp. 4, 5, and 14
The Permittee shall operate and maintain the thermal oxidizer in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	Minn. R. 7007.0800, subp. 14

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **SV 015 Ethanol Plant Scrubbers**

Associated Items: EU 037 A Pre-Fermenter

EU 038 B Pre-Fermenter

EU 039 1A Fermenter

EU 040 2A Fermenter

EU 041 2B Fermenter

EU 042 1B Fermenter

EU 043 3A Fermenter

EU 044 3B Fermenter

EU 045 4A Fermenter

EU 046 4B Fermenter

EU 047 Distillation/Dehydration #1

EU 048 Distillation/Dehydration #2

EU 060 Beer Well

What to do	Why to do it
A. EMISSION LIMITS	hdr
Sulfur Dioxide: less than or equal to 0.52 lbs/hour using 1-Hour Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Performance Test: due before end of each 60 months starting 07/17/2001 to measure sulfur dioxide emissions at the stack. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	Title I Condition: Testing for 40 CFR Section 52.21(k) limit and Minn. R. 7017.2020, subp. 1
C. EMISSION UNIT OPERATION (EU037 - EU048, EU060)	hdr
Production: less than or equal to 51295640 gallons/year using 12-month Rolling Sum of 200 proof fuel ethanol (finished, distilled product, prior to addition of denaturant).	Minn. R. 7017.2025, subp. 3
Recordkeeping: The Permittee shall calculate and record the total ethanol production for the previous 12-month period by the 15th day of each month.	Minn. R. 7007.0800 subp. 5
D. CONTROL EQUIPMENT OPERATION (CE030 & CE031 - packed gas absorption columns)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: 40 CFR Section 52.21(k) (use of control required to meet modeling limit)
Sulfur Dioxide: greater than or equal to 70 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(k)
Combined Pressure Drop: greater than or equal to 1.0 inches of water column and less than or equal to 22.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(k)
Water flow rate: greater than or equal to 60 gallons/minute and less than or equal to 150 gallons/minute	Title I Condition: Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Pressure Drop: Once each operating day, read and record pressure drop.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Water Flow Rate: Once each operating day, read and record the water flow rate.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Corrective Actions: If the recorded pressure drop or water flow rate is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for CE030 or CE031 (as appropriate) and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **SV 016 Coal Boilers**

Associated Items: EU 049 Coal Boiler #1

EU 050 Coal Boiler #2

MR 001 SO2 Monitor (Coal Boilers)

MR 002 O2 Monitor (Coal Boilers)

MR 007 NOx Monitor (Coal Boilers)

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.10 lbs/million Btu heat input using 24-hour Block Average (18 lbs/hour))	Title I Condition: To avoid classification of a previous modification as major under 40 CFR Section 52.21
Total Particulate Matter: less than or equal to 0.4 lbs/million Btu heat input	Minn. R. 7011.0515, subp. 1
Particulate Matter < 10 micron: less than or equal to 0.06 lbs/million Btu heat input using 24-hour Block Average	Title I Condition: To avoid classification of a previous modification as major under 40 CFR Section 52.21
Particulate Matter < 10 micron: less than or equal to 10.81 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity , except for one six-minute period per hour of not more than 60 percent opacity. (An exceedance of this opacity standard occurs whenever any one-hour period contains two or more six-minute periods during which the average opacity exceeds 20 percent or whenever any one-hour period contains one or more six-minute periods during which the average opacity exceeds 60 percent.)	Minn. R. 7011.0515, subp. 2
Sulfur Dioxide: less than or equal to 161.8 lbs/hour using 30-day Rolling Average	Title I Condition: To avoid classification of a previous modification as major under 40 CFR Section 52.21
Sulfur Dioxide: less than or equal to 252.22 lbs/hour using 1-Hour Average (= 1.2 lb/million Btu heat input)	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Sulfur Dioxide: less than or equal to 4 lbs/million Btu heat input using 1-Hour Average	Minn. R. 7011.0515, subp. 1
Nitrogen Oxides: less than or equal to 68.93 lbs/hour using an annual average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Carbon Monoxide: less than or equal to 47.94 lbs/hour using 1-Hour Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Performance Test: due before end of each 60 months starting 01/31/2003 to measure CO emissions at the stack. The first test is due on or before January 31, 2003, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	Title I Condition: Testing for 40 CFR Section 52.21(k) limit and Minn. R. 7017.2020, subp. 1, 7017.2030, subp. 4
Emissions Monitoring: The owner or operator shall use a sulfur dioxide CEMS to measure sulfur dioxide emissions from the boilers.	Title I Condition: Monitoring of emissions to avoid classification of a previous modification as major under 40 CFR Section 52.21; Minn. R. 7017.1006
Emissions Monitoring: The owner or operator shall use a NOx CEMS to measure NOx emissions from SV 016.	Minn. R. 7017.1006
CEMS Installation: Install a NOx CEMS.	Minn. R. 7017.1006
C. EMISSION UNIT OPERATION (EU049, EU050)	hdr
Fuel Usage: less than or equal to 51996 tons/year using 12-month Rolling Sum , of coal	Title I Condition: To avoid classification of a previous modification as major under 40 CFR Section 52.21
Recordkeeping: By the 15th day of each month, calculate and record the quantity of coal used during the previous month, and during the previous 12 months (12-month rolling sum).	Title I Condition: To avoid classification of a previous modification as major under 40 CFR Section 52.21
Sulfur Content of Fuel: less than or equal to 1 percent by weight	Title I Condition: 40 CFR Section 52.21(j) (BACT limit)
Recordkeeping: For each shipment of coal received, maintain records of the sulfur content of the shipment. Records may consist of certification from the coal supplier, or results of an analysis of a sample from the shipment.	Title I Condition: Recordkeeping for 40 CFR Section 52.21(j)
D. CONTROL EQUIPMENT OPERATION (CE032 & CE034 - multiple cyclones; CE033 & CE035 - fabric filters)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: 40 CFR Section 52.21(k) (use of control required to meet modeling limit)

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Total Particulate Matter: greater than or equal to 99.8 percent control efficiency	Title I Condition: Control required to avoid classification of a previous modification as major under 40 CFR Section 52.21
Particulate Matter < 10 micron: greater than or equal to 99.8 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(k)
CE032 and CE034 Pressure Drop: greater than or equal to 0.1 inches of water column and less than or equal to 10.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(k) limit
CE033 and CE035 Pressure Drop: greater than or equal to 0.5 inches of water column and less than or equal to 10.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(k) limit
Recordkeeping: Once each operating day, read and record the pressure drop.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k) limit
Recordkeeping of Corrective Actions: If the recorded pressure drop is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for CE032, CE033, CE034, or CE035 (as appropriate) and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k) limit

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **SV 017 Fly Ash Bin**

Associated Items: EU 051 Fly Ash Bin

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.03 lbs/hour using 24-hour Block Average This is a state only requirement and is not enforceable under the Clean Air Act by the EPA Administrator or by the citizens.	Minn. R. 7009.0200
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas from control equipment, or the allowable concentration at the actual flow rate, as described in Minn. R. 7011.0735, or the allowable emission rate at the actual process weight rate, as described in Minn. R. 7011.0730.	Minn. R. 7011.0715,subp. 1(A)
Particulate Matter < 10 micron: less than or equal to 0.03 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.019 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Visible Emissions: The Permittee shall check the stack (outlet of CE036) for any visible emissions, or, during inclement weather, read and record the pressure drop across the baghouse, two (2) times per calendar week, when the emission unit is in operation.	Title I Condition: Monitoring for 40 CFR Section 52.21(k) limit
C. EMISSION UNIT OPERATION (EU051) - N/A	hdr
D. CONTROL EQUIPMENT OPERATION (CE036 - fabric filter)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: 40 CFR Section 52.21(k) (use of control required to meet modeling limit)
Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(k)
Pressure Drop: greater than or equal to 0.1 inches of water column and less than or equal to 10.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(k) limit
Recordkeeping of Visible Emissions or Pressure Drop: The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified herein.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k) limit
Recordkeeping of Corrective Actions: If visible emissions are observed, or if the recorded pressure drop is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for the fabric filter and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k) limit

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **SV 018 Bottom Ash Bin**

Associated Items: EU 052 Bottom Ash Bin

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.03 lbs/hour using 24-hour Block Average This is a state only requirement and is not enforceable under the Clean Air Act by the EPA Administrator or by the citizens.	Minn. R. 7009.0200
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas from control equipment, or the allowable concentration at the actual flow rate, as described in Minn. R. 7011.0735, or the allowable emission rate at the actual process weight rate, as described in Minn. R. 7011.0730.	Minn. R. 7011.0715,subp. 1(A)
Particulate Matter < 10 micron: less than or equal to 0.03 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.019 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Visible Emissions: The Permittee shall check the stack (outlet of CE037) for any visible emissions, or, during inclement weather, read and record the pressure drop across the baghouse, two (2) times per calendar week, when the emission unit is in operation.	Title I Condition: Monitoring for 40 CFR Section 52.21(k) limit
C. EMISSION UNIT OPERATION (EU052) - N/A	hdr
D. CONTROL EQUIPMENT OPERATION (CE037 - fabric filter)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: 40 CFR Section 52.21(k) (use of control required to meet modeling limit)
Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(k)
Pressure Drop: greater than or equal to 0.1 inches of water column and less than or equal to 10.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(k) limit
Recordkeeping of Visible Emissions or Pressure Drop: The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified herein.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k) limit
Recordkeeping of Corrective Actions: If visible emissions are observed, or if the recorded pressure drop is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for the fabric filter and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k) limit

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **SV 019 Boiler #3**

Associated Items: EU 053 Boiler #3

MR 003 NOx Monitor (Boiler #3)

MR 004 O2 Monitor (Boiler #3)

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.0095 lbs/million Btu heat input using 24-hour Block Average (1.7 lb/hr)	Title I Condition: To avoid classification of a previous modification as major under 40 CFR Section 52.21
Particulate Matter < 10 micron: less than or equal to 0.0095 lbs/million Btu heat input using 24-hour Block Average	Title I Condition: To avoid classification of a previous modification as major under 40 CFR Section 52.21
Particulate Matter < 10 micron: less than or equal to 1.7 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Sulfur Dioxide: less than or equal to 0.3 lbs/hour using 1-Hour Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Nitrogen Oxides: less than or equal to 0.125 lbs/million Btu heat input using an annual average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit)
Nitrogen Oxides: less than or equal to 22.31 lbs/hour using an annual average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Nitrogen Oxides: less than or equal to 0.1 lbs/million Btu heat input using 30-day Rolling Average calculated using the 1-hour average emission rates measured by the continuous nitrogen oxides monitor. This limit applies at all times including periods of startup, shutdown, or malfunction.	40 CFR Section 60.44b(a)(1)(i); 40 CFR Section 60.44b(h) & (i); 40 CFR Section 60.46b(a); 40 CFR Section 60.48b(d); Minn. R. 7011.0565
Carbon Monoxide: less than or equal to 28.53 lbs/hour using 1-Hour Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
The Permittee must calibrate, maintain, and operate a continuous monitoring system for measuring nitrogen oxide emissions discharged to the atmosphere, and record the output of the system.	40 CFR Section 60.48b(b); Minn. R. 7011.0565; Minn. R. 7017.1006
30-day Performance Test to measure NOx emissions, upon request.	40 CFR Section 60.46b(e)(4); Minn. R. 7011.0565
C. EMISSION UNIT OPERATION and REPORTING (EU053)	hdr
Fuel Use: Limited to natural gas only	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Recordkeeping: Each operating day, record the quantity of natural gas combusted and all of the information listed in 40 CFR 60.49b(g).	40 CFR Section 60.49b(d); 40 CFR Section 60.49b(g); Minn. R. 7011.0565
Records of Startup, Shutdown, or Malfunction: The owner or operator shall maintain records of the occurence and duration of any startup, shutdown, or malfunction in the operation of the boiler; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.	40 CFR Section 60.7(b)
D. CONTROL EQUIPMENT OPERATION	hdr
Burner requirements: Low-NOx burners	Title I Condition: 40 CFR Section 52.21(j) (BACT)

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **SV 020 Boiler #4**

Associated Items: EU 054 Boiler #4

MR 005 NOx Monitor (Boiler #4)

MR 006 O2 Monitor (Boiler #4)

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.0084 lbs/million Btu heat input using 24-hour Block Average (2.0 lb/hr)	Title I Condition: 40 CFR Section 52.21(j) (BACT limit)
Particulate Matter < 10 micron: less than or equal to 0.0084 lbs/million Btu heat input using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit)
Particulate Matter < 10 micron: less than or equal to 2.0 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Sulfur Dioxide: less than or equal to 0.4 lbs/hour using 1-Hour Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
Nitrogen Oxides: less than or equal to 24.1 lbs/hour using an annual average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
Nitrogen Oxides: less than or equal to 0.1 lbs/million Btu heat input using 30-day Rolling Average calculated using the 1-hour average emission rates measured by the continuous nitrogen oxides monitor. This limit applies at all times including periods of startup, shutdown, or malfunction.	40 CFR Section 60.44b(a)(1)(i); 40 CFR Section 60.44b(h) & (i); 40 CFR Section 60.46b(a); 40 CFR Section 60.48b(d); Minn. R. 7011.0565
Carbon Monoxide: less than or equal to 38.56 lbs/hour using 1-Hour Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Performance Test: due before end of each 36 months starting 12/05/2003 to measure PM10 emissions. The first test is due December 5, 2003, then every 36 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	Title I Condition: Testing for 40 CFR Section 52.21(j) limits and Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 01/31/2003 to measure total particulate matter emissions. The tests shall be conducted at an interval not to exceed 60 months between test dates. The first test is due on or before January 31, 2003, then every 60 months, thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	Title I Condition: Testing for 40 CFR Section 52.21(j) limit and Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 01/31/2003 to measure NOx emissions. The tests shall be conducted at an interval not to exceed 60 months between test dates. The first test is due on or before January 31, 2003, then every 60 months, thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	Title I Condition: Testing for 40 CFR Section 52.21(j) limit and Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 01/31/2003 to measure CO emissions. The tests shall be conducted at an interval not to exceed 60 months between test dates. The first test is due on or before January 31, 2003, then every 60 months, thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	Title I Condition: Testing for 40 CFR Section 52.21(j) limit and Minn. R. 7017.2020, subp. 1
30-day Performance Test to measure NOx emissions, upon request.	40 CFR Section 60.46b(e)(4); Minn. R. 7011.0565
The Permittee must calibrate, maintain, and operate a continuous monitoring system for measuring nitrogen oxide emissions discharged to the atmosphere, and record the output of the system.	40 CFR Section 60.48b(b); Minn. R. 7011.0565; Minn. R. 7017.1006
C. EMISSION UNIT OPERATION and REPORTING (EU054)	hdr
Fuel Use: Limited to natural gas only	Title I Condition: 40 CFR Section 52.21(j) (BACT for PM, PM10, and SO2)
Recordkeeping: Each operating day, record the quantity of natural gas combusted and all of the information listed in 40 CFR 60.49b(g).	40 CFR Section 60.49b(d); 40 CFR Section 60.49b(g); Minn. R. 7011.0565

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Records of Startup, Shutdown, or Malfunction: The owner or operator shall maintain records of the occurence and duration of any startup, shutdown, or malfunction in the operation of the boiler; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.	40 CFR Section 60.7(b)
D. CONTROL EQUIPMENT OPERATION	hdr
Burner requirements: Low-NOx multistage combustion with induced flue gas recirculation	Title I Condition: 40 CFR Section 52.21(j) (BACT for CO and NOx)

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **SV 021 Generator**

Associated Items: EU 055 Generator

What to do	Why to do it
A. EMISSION LIMITS	hdr
Opacity: less than or equal to 20 percent opacity once operating temperatures have been attained	Minn. R. 7011.2300, subp. 1
Sulfur Dioxide: less than or equal to 0.5 lbs/million Btu heat input	Minn. R. 7011.2300, subp. 2
B. EMISSION TESTING AND MONITORING REQUIREMENTS -- N/A	hdr
C. EMISSION UNIT OPERATION (EU055)	hdr
May only be used in times of total or partial power loss, or for routine testing. May not be a regular power source for routine plant operation.	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Recordkeeping: Record the date and times that the generator is operated.	Title I Condition: Recordkeeping for 40 CFR Section 52.21(k); Minn. R. 7007.3000
D. CONTROL EQUIPMENT OPERATION -- N/A	hdr

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **SV 022 WastewaterTreatment Plant Flare**

Associated Items: EU 056 Anaerobic Reactor #1

EU 062 Anaerobic Reactor #2

What to do	Why to do it
A. EMISSION LIMITS	hdr
Sulfur Dioxide: less than or equal to 60 lbs/hour using 1-Hour Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Nitrogen Oxides: less than or equal to 0.55 lbs/hour using an annual average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Carbon Monoxide: less than or equal to 2.96 lbs/hour using 1-Hour Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
The Permittee shall vent biogas to the Wastewater Treatment Plant Flare (SV 022) less than or equal to 700 hours per year calculated as a 12-month rolling sum.	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
B. EMISSION TESTING AND MONITORING REQUIREMENTS -- N/A	hdr
Record the number of hours biogas is vented to the flare daily. The Permittee shall calculate the number of hours that biogas was vented to the flare by the 15th of each month for the previous 12-month period.	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
C. EMISSION UNIT OPERATION (EU056 & EU062) -- N/A	hdr
D. CONTROL EQUIPMENT OPERATION (CE038 - flare)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: 40 CFR Section 52.21(k) (use of control required to meet modeling limit)

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **SV 023 Product Transfer**

Associated Items: EU 029 Transfer operation

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 1.71 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit)
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas from control equipment, or the allowable concentration at the actual flow rate, as described in Minn. R. 7011.0735, or the allowable emission rate at the actual process weight rate, as described in Minn. R. 7011.0730.	Minn. R. 7011.0715, subp. 1(A)
Particulate Matter < 10 micron: less than or equal to 1.71 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.005 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
Volatile Organic Compounds: less than or equal to 5.3 lbs/hour measured as total mass of VOC.	Consent Decree para. 39
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Visible Emissions: The Permittee shall check the stack (outlet of EU029) for any visible emissions two (2) times per calendar week, when the unit is in operation.	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Performance Test: due 180 days after Permit Issuance of Permit 007 to measure VOC emissions.	Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 09/26/2005 to measure total particulate matter emissions at the stack. The first test is due September 26, 2005, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1)Title I Condition: Testing for 40 CFR Section 52.21(j) limit; (2)Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits; (1&2) Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 36 months starting 09/26/2003 to measure PM10 emissions from the stack. The first test is due September 26, 2003, then every 36 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1)Title I Condition: Testing for 40 CFR Section 52.21(j) limit; (2)Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits; (1&2) Minn. R. 7017.2020, subp. 1
C. EMISSION UNIT OPERATION (EU029)	hdr
Recordkeeping of Visible Emissions: The Permittee shall record the time and date of each visible emission inspection and whether or not any visible emissions were observed.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Corrective Actions: If visible emissions are observed, the Permittee shall begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)
D. CONTROL EQUIPMENT OPERATION - N/A	hdr

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **SV 024 Corn Silos #7-#11**

Associated Items: EU 057 Corn Receiving Silo #7

EU 058 Corn Receiving Silo #8

EU 059 Corn Receiving Silo #9

EU 066 Corn Receiving Silo #10

EU 067 Corn Receiving Silo #11

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.18 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit)
Particulate Matter < 10 micron: less than or equal to 0.18 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.011 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 10 percent opacity	Minn. R. 7011.1005, subp. 3(D)
Opacity: less than or equal to 5 percent opacity from fugitive emissions (emissions directly from the unit, not collected by ductwork to the fabric filter)	Minn. R. 7011.1005, subp. 3(A)
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Visible Emissions: The Permittee shall check the stack (outlet of CE061) for any visible emissions, or, during inclement weather, read and record the pressure drop across the baghouse, two (2) times per calendar week, when the emission unit is in operation.	Title I Condition: Monitoring for 40 CFR Section 52.21(j)
C. EMISSION UNIT OPERATION (EU057 - EU059, EU066, EU067)	hdr
The Permittee shall clean up commodities spilled on the driveway and other facility property as rquired to minimize fugitive emissions to a level consistent with RACT (reasonably available control technology).	Minn. R. 7011.1005, subp. 1(A)
D. CONTROL EQUIPMENT OPERATION (CE061 - fabric filter)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Total Particulate Matter: greater than or equal to 99 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(j) [Also meets the requirements of Minn. R. 7011.1005, subp. 3(E)]
Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(j) & (k)
Pressure Drop: greater than or equal to 0.1 inches of water column and less than or equal to 10.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Visible Emissions or Pressure Drop: The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified herein.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Corrective Actions: If visible emissions are observed, or if the recorded pressure drop is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for the fabric filter and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **SV 029 Corn Fines Transfer**

Associated Items: EU 068 Corn Fines Transfer

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.14 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit)
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas from control equipment, or the allowable concentration at the actual flow rate, as described in Minn. R. 7011.0735, or the allowable emission rate at the actual process weight rate, as described in Minn. R. 7011.0730.	Minn. R. 7011.0715, subp. 1(A)
Particulate Matter < 10 micron: less than or equal to 0.14 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(j) (BACT limit); 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.009 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Visible Emissions: The Permittee shall check the stack (outlet of EU068) for any visible emissions two (2) times per calendar week, when the unit is in operation.	Title I Condition: Monitoring for 40 CFR Section 52.21(j) & (k)
Performance Test: due before end of each 60 months starting 09/26/2005 to measure total particulate matter emissions at the stack. The first test is due September 26, 2005, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1) Title I Condition: Testing for 40 CFR Section 52.21(j) limit; (2)Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits; (1&2) Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 09/26/2005 to measure PM10 emissions at the stack. The first test is due September 26, 2005, then every 60 months thereafter. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	(1) Title I Condition: Testing for 40 CFR Section 52.21(j) limit; (2)Title I Condition: Testing for 40 CFR Section 52.21(j) and (k) limits; (1&2) Minn. R. 7017.2020, subp. 1
C. EMISSION UNIT OPERATION (EU068)	hdr
Process Throughput: less than or equal to 48950 bushel/hour using 24-hour Block Average of corn fines. Downtime of 15 minutes or more is not to be counted as operating time.	Minn. R. 7017.2025
Recordkeeping of Throughput: Each day, calculate the amount of corn fines processed for the previous day, in bushels per hour. Divide the total amount of corn fines by the hours of operating time. Do not count downtime of 15 minutes or more as operating time.	Minn. R. 707.0800, subp. 5
Recordkeeping of Visible Emissions: The Permittee shall record the time and date of each visible emission inspection and whether or not any visible emissions were observed.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)
Recordkeeping of Corrective Actions: If visible emissions are observed, the Permittee shall begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)
D. CONTROL EQUIPMENT OPERATION - N/A	hdr

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **SV 030 Rotary Cooler**

Associated Items: EU 023 Rotary Cooler

EU 119 Dryer #2 Baghouse

EU 120 Dryer #3 Baghouse

EU 121 Dryer #4 Baghouse

EU 122 Dryers #5 & #6 Baghouse

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 3.57 lbs/hour using 24-hour Block Average This is a state only requirement and is not enforceable under the Clean Air Act by the EPA Administrator or by the citizens.	Minn. R. 7009.0200
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas from control equipment, or the allowable concentration at the actual flow rate, as described in Minn. R. 7011.0735, or the allowable emission rate at the actual process weight rate, as described in Minn. R. 7011.0730.	Minn. R. 7011.0715, subp. 1(A)
Particulate Matter < 10 micron: less than or equal to 3.57 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.011 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Volatile Organic Compounds: less than or equal to 4.9 lbs/hour measured as total mass of VOC.	Consent Decree para. 39
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Visible Emissions: The Permittee shall check the stack for any visible emissions, or, during inclement weather, read and record the pressure drop across the baghouse, two (2) times per calendar week, when the emission units are in operation.	Title I Condition: Monitoring for 40 CFR Section 52.21(k)
Performance Test: due 180 days after Permit Issuance of Permit 007 to measure VOC emissions.	Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each calendar 60 months starting 06/27/2001 to measure total particulate matter emissions. For additional applicable performance testing requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	Minn. R. 7009.0200 (Testing for permit limit) and Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each calendar 60 months starting 06/27/2001 to measure PM10 emissions. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	Title I Condition: Testing for 40 CFR Section 52.21(k) limit and Minn. R. 7017.2020, subp. 1
C. EMISSION UNIT OPERATION (EU023, EU119, EU120, EU121, EU122)	hdr
Recordkeeping of Visible Emissions: The Permittee shall record the time and date of each visible emission inspection and whether or not any visible emissions were observed.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Corrective Actions: If visible emissions are observed, the Permittee shall begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)
D. CONTROL EQUIPMENT OPERATION (CE016 - Fabric Filter)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: 40 CFR Section 52.21(k) (use of control equipment required to meet modeling limits)
Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21 (k)
Pressure Drop: greater than or equal to 0.1 inches of water column and less than or equal to 8.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Visible Emissions or Pressure Drop: The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified herein.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)

Facility Name: ADM Corn Processing - Marshall

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Recordkeeping of Corrective Actions: If visible emissions are observed, or if the recorded pressure drop is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for the fabric filter and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(j) & (k)

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **SV 033 Fiber Dewatering & Chemical Storage**

Associated Items: EU 107 Chemical Storage/Fiber Dewatering System

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.6 lbs/hour using 24-hour Block Average This is a state only requirement and is not enforceable under the Clean Air Act by the EPA Administrator or by the citizens.	Minn. R. 7009.0200
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas from control equipment, or the allowable concentration at the actual flow rate, as described in Minn. R. 7011.0735, or the allowable emission rate at the actual process weight rate, as described in Minn. R. 7011.0730.	Minn. R. 7011.0715, subp. 1(A)
Particulate Matter < 10 micron: less than or equal to 0.6 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.007 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Volatile Organic Compounds: less than or equal to 7.2 lbs/hour measured as total mass of VOC.	Consent Decree para. 39
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
Sulfur Dioxide: less than or equal to 0.49 lbs/hour using 1-Hour Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000)
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Performance Test: due 180 days after Permit Issuance of Permit 007 to measure VOC emissions.	Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each calendar 60 months starting 06/26/2001 to measure total particulate matter emissions For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	Minn. R. 7007.0200 (Testing for permit limit) and Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each calendar 60 months starting 06/26/2001 to measure PM10 and SO2 emissions. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	Title I Condition: Testing for 40 CFR Section 52.21(k) limit and Minn. R. 7017.2020, subp. 1
C. EMISSION UNIT OPERATION (EU107) -- N/A	hdr
D. CONTROL EQUIPMENT OPERATION (CE069 - packed gas absorption column)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: 40 CFR Section 52.21(k) (use of control required to meet modeling limit)
Particulate Matter < 10 micron: greater than or equal to 90 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(k)
Sulfur Dioxide: greater than or equal to 70 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(k)
Pressure Drop: greater than or equal to 0.1 inches of water column and less than or equal to 4.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(k)
Water flow rate: greater than or equal to 100 gallons/minute and less than or equal to 200 gallons/minute	Title I Condition: Monitoring for 40 CFR Section 52.21(k)
pH of scrubber water: greater than or equal to 6.0 and less than or equal to 8.0	Title I Condition: Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Pressure Drop: Once each operating day, read and record pressure drop.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Water Flow Rate: Once each operating day, read and record the water flow rate.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of pH: Once each operating day, read and record the pH.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Corrective Actions: If the recorded pressure drop, water flow rate, or pH is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for CE069 and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **SV 034 Loadout Building**

Associated Items: EU 010 Bin #1

EU 011 Bin #2

EU 012 Bin #3

EU 013 Bin #4

EU 024 Bin #5

EU 025 Bin #6

EU 026 Bin #7

EU 027 Bin #10

EU 030 Bin #8

EU 031 Bin #9

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.21 lbs/hour using 24-hour Block Average This is a state only requirement and is not enforceable under the Clean Air Act by the EPA Administrator or by the citizens.	Minn. R. 7009.0200
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas from control equipment, or the allowable concentration at the actual flow rate, as described in Minn. R. 7011.0735, or the allowable emission rate at the actual process weight rate, as described in Minn. R. 7011.0730.	Minn. R. 7011.0715, subp. 1(A)
Particulate Matter < 10 micron: less than or equal to 0.21 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.018 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Visible Emissions: The Permittee shall check the roof vent (SV034) for any visible emissions, or, during inclement weather, read and record the pressure drop across each of the baghouses, two (2) times per calendar week, when the emission units are in operation.	Title I Condition: Monitoring for 40 CFR Section 52.21(k)
C. EMISSION UNIT OPERATION (EU010 - EU013, EU024 - EU027, EU030, EU031) - N/A	hdr
D. CONTROL EQUIPMENT OPERATION (CE007 - CE010, CE017 - CE020, CE023, CE024 - fabric filters)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: 40 CFR Section 52.21(k) (use of control equipment required to meet modeling limits)
Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(k)
Pressure Drop: greater than or equal to 0.1 inches of water column and less than or equal to 10.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Visible Emissions or Pressure Drop: The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified herein.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Corrective Actions: If visible emissions are observed, or if the recorded pressure drop is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for the fabric filter and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **SV 035 Storage Silo**

Associated Items: EU 061 Lime Storage Tank

EU 109 Storage Silo

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.08 lbs/hour using 24-hour Block Average This is a state only requirement and is not enforceable under the Clean Air Act by the EPA Administrator or by the citizens.	Minn. R. 7009.0200
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas from control equipment, or the allowable concentration at the actual flow rate, as described in Minn. R. 7011.0735, or the allowable emission rate at the actual process weight rate, as described in Minn. R. 7011.0730.	Minn. R. 7011.0715, subp. 1(A)
Particulate Matter < 10 micron: less than or equal to 0.08 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.010 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Visible Emissions: The Permittee shall check the stack (outlet of CE071) for any visible emissions, or, during inclement weather, read and record the pressure drop across the baghouse, two (2) times per calendar week, when the emission unit is in operation.	Title I Condition: Monitoring for 40 CFR Section 52.21(k)
C. EMISSION UNIT OPERATION (EU061& EU109) -- N/A	hdr
D. CONTROL EQUIPMENT OPERATION (CE071 - fabric filter)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: 40 CFR Section 52.21(k) (use of control equipment required to meet modeling limits)
Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(k)
Pressure Drop: greater than or equal to 0.1 inches of water column and less than or equal to 4.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Visible Emissions or Pressure Drop: The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified herein.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Corrective Actions: If visible emissions are observed, or if the recorded pressure drop is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for the fabric filter and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **SV 036 Lime Storage Silo**

Associated Items: EU 110 Lime Storage Silo

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.13 lbs/hour using 24-hour Block Average This is a state only requirement and is not enforceable under the Clean Air Act by the EPA Administrator or by the citizens.	Minn. R. 7009.0200
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas from control equipment, or the allowable concentration at the actual flow rate, as described in Minn. R. 7011.0735, or the allowable emission rate at the actual process weight rate, as described in Minn. R. 7011.0730.	Minn. R. 7011.0715, subp. 1(A)
Particulate Matter < 10 micron: less than or equal to 0.13 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.010 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Visible Emissions: The Permittee shall check the stack (outlet of CE072) for any visible emissions, or, during inclement weather, read and record the pressure drop across the baghouse, two (2) times per calendar week, when the emission unit is in operation.	Title I Condition: Monitoring for 40 CFR Section 52.21(k)
C. EMISSION UNIT OPERATION (EU110) -- N/A	hdr
D. CONTROL EQUIPMENT OPERATION (CE072 - fabric filter)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: 40 CFR Section 52.21(k) (use of control equipment required to meet modeling limits)
Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(k)
Pressure Drop: greater than or equal to 0.1 inches of water column and less than or equal to 5.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Visible Emissions or Pressure Drop: The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified herein.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Corrective Actions: If visible emissions are observed, or if the recorded pressure drop is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for the fabric filter and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **SV 037 Soda Ash Storage Silo**

Associated Items: EU 111 Soda Ash Storage Silo

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.13 lbs/hour using 24-hour Block Average This is a state only requirement and is not enforceable under the Clean Air Act by the EPA Administrator or by the citizens.	Minn. R. 7009.0200
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas from control equipment, or the allowable concentration at the actual flow rate, as described in Minn. R. 7011.0735, or the allowable emission rate at the actual process weight rate, as described in Minn. R. 7011.0730.	Minn. R. 7011.0715, subp. 1(A)
Particulate Matter < 10 micron: less than or equal to 0.13 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000)
Particulate Matter < 10 micron: less than or equal to 0.010 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Visible Emissions: The Permittee shall check the stack (outlet of CE073) for any visible emissions, or, during inclement weather, read and record the pressure drop across the baghouse, two (2) times per calendar week, when the emission unit is in operation.	Title I Condition: Monitoring for 40 CFR Section 52.21(k)
D. EMISSION UNIT OPERATION (EU111) -- N/A	hdr
E. CONTROL EQUIPMENT OPERATION (CE073 - fabric filter)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: 40 CFR Section 52.21(k) (use of control equipment required to meet modeling limits)
Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(k)
Pressure Drop: greater than or equal to 0.1 inches of water column and less than or equal to 5.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Visible Emissions or Pressure Drop: The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified herein.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)
Recordkeeping of Corrective Actions: If visible emissions are observed, or if the recorded pressure drop is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for the fabric filter and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k)

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **SV 038 WWTP Package Boiler**

Associated Items: EU 113 WWTP Package Boiler

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.01 lbs/hour using 24-hour Block Average (0.015 lbs/ million Btu heat input) This is a state only requirement and is not enforceable under the Clean Air Act by the EPA Administrator or by the citizens.	Minn. R. 7009.0200
Total Particulate Matter: less than or equal to 0.4 lbs/million Btu heat input	Minn. R. 7011.0515, subp. 1
Particulate Matter < 10 micron: less than or equal to 0.01 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.015 lbs/million Btu heat input	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity , except for one six-minute period per hour of not more than 60 percent opacity. (An exceedance of this opacity standard occurs whenever any one-hour period contains two or more six-minute periods during which the average opacity exceeds 20 percent or whenever any one-hour period contains one or more six-minute periods during which the average opacity exceeds 60 percent.)	Minn. R. 7011.0515, subp. 2
Sulfur Dioxide: less than or equal to 0.01 lbs/hour using 1-Hour Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Nitrogen Oxides: less than or equal to 0.1 lbs/hour using an annual average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Carbon Monoxide: less than or equal to 0.04 lbs/hour using 1-Hour Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
B. EMISSION TESTING AND MONITORING REQUIREMENTS -- N/A	hdr
C. EMISSION UNIT OPERATION (EU113)	hdr
Fuel Use: Limited to natural gas only, by equipment design	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
D. CONTROL EQUIPMENT OPERATION -- N/A	hdr

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **SV 039 Natural Gas Heater**

Associated Items: EU 114 Natural Gas Heater

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.01 lbs/hour using 24-hour Block Average (0.005 lbs/ million Btu heat input) This is a state only requirement and is not enforceable under the Clean Air Act by the EPA Administrator or by the citizens.	Minn. R. 7009.0200
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas from control equipment, or the allowable concentration at the actual flow rate, as described in Minn. R. 7011.0735, or the emission rate at the actual process weight rate, as described in Minn. R. 7011.0730.	Minn. R. 7011.0715, subp. 1(A)
Particulate Matter < 10 micron: less than or equal to 0.01 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.005 lbs/million Btu heat input using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
Sulfur Dioxide: less than or equal to 0.01 lbs/hour using 1-Hour Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Nitrogen Oxides: less than or equal to 0.2 lbs/hour using an annual average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Carbon Monoxide: less than or equal to 0.13 lbs/hour using 1-Hour Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
B. EMISSION TESTING AND MONITORING REQUIREMENTS -- N/A	hdr
C. EMISSION UNIT OPERATION (EU114)	hdr
Fuel Use: Limited to natural gas only, by equipment design	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
D. CONTROL EQUIPMENT OPERATION -- N/A	hdr

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **SV 041 Soda Ash Blending**

Associated Items: EU 116 Soda Ash Blending

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.04 lbs/hour using 24-hour Block Average This is a state only requirement and is not enforceable under the Clean Air Act by the EPA Administrator or by the citizens.	Minn. R. 7009.0200
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas from control equipment, or the allowable concentration at the actual flow rate, as described in Minn. R. 7011.0735, or the allowable emission rate at the actual process weight rate, as described in Minn. R. 7011.0730.	Minn. R. 7011.0715, subp. 1(A)
Particulate Matter < 10 micron: less than or equal to 0.04 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.008 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Visible Emissions: The Permittee shall check the stack (outlet of EU116) for any visible emissions, or, during inclement weather, read and record the pressure drop across the unit, two (2) times per calendar week, when the unit is in operation.	Title I Condition: Monitoring for 40 CFR Section 52.21(k) limit
C. EMISSION UNIT OPERATION (EU116)	hdr
Operation and Maintenance of Fabric Filter: The Permittee shall conduct all necessary maintenance and make all necessary attempts to keep the unit in proper operating condition at all times. The Permittee shall operate and maintain the unit according to the equipment manufacturer's specifications or the Operation and Maintenance Plan developed by the Permittee.	Title I Condition: Monitoring for 40 CFR Section 52.21(j)
Pressure Drop: greater than or equal to 0.1 inches of water column and less than or equal to 5.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(k) limit
Recordkeeping of Visible Emissions or Pressure Drop: The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified herein.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k) limit
Recordkeeping of Corrective Actions: If visible emissions are observed, or if the recorded pressure drop is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for the fabric filter and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k) limit
The Permittee shall inspect the unit according to manufacturer's specifications or an Operation and Maintenance Plan developed by the Permittee and maintain a written record of the inspection and any action resulting from the inspection.	Minn. R. 7007.0800, subp. 2 and subp. 14
D. CONTROL EQUIPMENT OPERATION - N/A	hdr

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **SV 043 Soda Ash Bin**

Associated Items: EU 118 Soda Ash Bin

What to do	Why to do it
A. EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.1 lbs/hour using 24-hour Block Average This is a state only requirement and is not enforceable under the Clean Air Act by the EPA Administrator or by the citizens.	Minn. R. 7009.0200
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas from control equipment, or the allowable concentration at the actual flow rate, as described in Minn. R. 7011.0735, or the allowable emission rate at the actual process weight rate, as described in Minn. R. 7011.0730.	Minn. R. 7011.0715,subp. 1(A)
Particulate Matter < 10 micron: less than or equal to 0.1 lbs/hour using 24-hour Block Average	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.009 grains/actual cubic foot	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
B. EMISSION TESTING AND MONITORING REQUIREMENTS	hdr
Visible Emissions: The Permittee shall check the stack (outlet of CE077) for any visible emissions, or, during inclement weather, read and record the pressure drop across the baghouse two (2) times per calendar week, when the emission unit is in operation.	Title I Condition: Monitoring for 40 CFR Section 52.21(k) limit
C. EMISSION UNIT OPERATION (EU118) -- N/A	hdr
D. CONTROL EQUIPMENT OPERATION (CE077 - fabric filter)	hdr
Control equipment shall be operated at all times that the associated emission units are in operation.	Title I Condition: 40 CFR Section 52.21(k) (use of control required to meet modeling limit)
Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: Control required for 40 CFR Section 52.21(k)
Pressure Drop: greater than or equal to 0.1 inches of water column and less than or equal to 5.0 inches of water column	Title I Condition: Monitoring for 40 CFR Section 52.21(k) limit
Recordkeeping of Visible Emissions or Pressure Drop: The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified herein.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k) limit
Recordkeeping of Corrective Actions: If visible emissions are observed, or if the recorded pressure drop is outside the required operating range, the Permittee shall follow the Operation and Maintenance Plan for the fabric filter and begin corrective actions as soon as possible (within 24 hours) to correct the problem. The Permittee shall keep a record of the corrective actions taken.	Title I Condition: Recordkeeping of Monitoring for 40 CFR Section 52.21(k) limit

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: SV 044 MVR Feed Tank

What to do	Why to do it
Volatile Organic Compounds: less than or equal to 6.0 lbs/hour using 3-hour Average	Consent Decree Para. 39

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: TK 001 Ethanol (1080TK01)

What to do	Why to do it
Recordkeeping: Maintain records showing the dimensions of the tank and an analysis showing the tank capacity. These records shall be maintained for the life of the source.	40 CFR Section 60.116b(b); Minn. R. 7011.1520(C)
Recordkeeping: Maintain records showing the volatile organic liquid (VOL) stored, the period of storage, and the maximum true vapor pressure of the VOL during the respective storage period, calculated as described in 40 CFR Section 116b(e).	40 CFR Section 60.116b(c); Minn. R. 7011.1520(C)
Notification: Within 30 days of each occurrence, notify the Commissioner when the maximum true vapor pressure exceeds 5.2 kPa.	40 CFR Section 60.116b(d); Minn. R. 7011.1520(C)

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: TK 002 Ethanol (1080TK02)

What to do	Why to do it
Recordkeeping: Maintain records showing the dimensions of the tank and an analysis showing the tank capacity. These records shall be maintained for the life of the source.	40 CFR Section 60.116b(b); Minn. R. 7011.1520(C)
Recordkeeping: Maintain records showing the volatile organic liquid (VOL) stored, the period of storage, and the maximum true vapor pressure of the VOL during the respective storage period, calculated as described in 40 CFR Section 116b(e).	40 CFR Section 60.116b(c); Minn. R. 7011.1520(C)
Notification: Within 30 days of each occurrence, notify the Commissioner when the maximum true vapor pressure exceeds 5.2 kPa.	40 CFR Section 60.116b(d); Minn. R. 7011.1520(C)

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: TK 003 Denaturant (gasoline) (1080TK04)

What to do	Why to do it
A. POLLUTION CONTROL REQUIREMENTS	hdr
The storage vessel shall be equipped with a fixed roof in combination with an internal floating roof meeting the specifications of paragraph (a)(1) of this section.	40 CFR Section 60.112b(a); Minn. R. 7011.1520(C)
The internal floating roof shall be equipped with the following closure devices between the wall of the storage vessel and the edge of the internal floating roof: (B) Two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.	40 CFR Section 60.112b(a)(1)(ii)(B); Minn. R. 7011.1520(C)
B. MONITORING REQUIREMENTS	hdr
Visually inspect the internal floating roof, the primary seal, and the secondary seal through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill as required by this paragraph.	40 CFR Section 60.113b(a)(3)(ii); Minn. R. 7011.1520(C)
Visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes, and sleeve seals (if any) each time the storage vessel is emptied and degassed as required by this paragraph. In no event shall inspections conducted in accordance with this provision occur at intervals greater than five (5) years.	40 CFR Section 60.113b(a)(3)(i); Minn. R. 7011.1520(C)
C. RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping: Maintain records showing the dimensions of the tank and an analysis showing the tank capacity. These records shall be maintained for the life of the source.	40 CFR Section 60.116b(b); Minn. R. 7011.1520(C)
Keep a record of each inspection performed as required by 40 CFR Section 60.113b(a)(1), (a)(2), (a)(3), and (a)(4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).	40 CFR Section 60.115b(a)(2); Minn. R. 7011.1520(C)
D. REPORTING REQUIREMENTS	hdr
After each inspection required by 40 CFR Section 60.113b(a)(3) that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in 40 CFR Section 60.113b(a)(3)(ii), a report shall be furnished to the Administrator within 30 days of the inspection. The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR Section 60.112b(a)(1) or 40 CFR Section 60.113b(a)(3)(ii) and list each repair made.	40 CFR Section 60.115b(a)(4); Minn. R. 7011.1520(C)
Notification: If an inspection is required (under 40 CFR Section 60.113b(a)(1) or 40 CFR Section 60.113b(a)(3)(i)), notify the Administrator in writing at least 30 days prior to filling or refilling of the storage vessel, to afford the Administrator the opportunity to have an observer present. If the inspection is not planned and the owner or operator could not have known about the inspection 30 days in advance of refilling the tank, the owner or operator shall notify the Administrator at least 7 days prior to refilling the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Administrator at least 7 days prior to refilling.	40 CFR Section 60.115b(a)(5); Minn. R. 7011.1520(C)

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **TK 005 Ethanol (1080TK03)**

What to do	Why to do it
Recordkeeping: Maintain records showing the dimensions of the tank and an analysis showing the tank capacity. These records shall be maintained for the life of the source.	40 CFR Section 60.116b(b); Minn. R. 7011.1520(C)

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: TK 006 Ethanol (1080TK06)

What to do	Why to do it
Recordkeeping: Maintain records showing the dimensions of the tank and an analysis showing the tank capacity. These records shall be maintained for the life of the source.	40 CFR Section 60.116b(b); Minn. R. 7011.1520(C)
Recordkeeping: Maintain records showing the volatile organic liquid (VOL) stored, the period of storage, and the maximum true vapor pressure of the VOL during the respective storage period, calculated as described in 40 CFR Section 116b(e).	40 CFR Section 60.116b(c); Minn. R. 7011.1520(C)
Notification: Within 30 days of each occurrence, notify the Commissioner when the maximum true vapor pressure exceeds 5.2 kPa.	40 CFR Section 60.116b(d); Minn. R. 7011.1520(C)

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: TK 015 Denatured Ethanol (1080TK07)

What to do	Why to do it
A. POLLUTION CONTROL REQUIREMENTS	hdr
The storage vessel shall be equipped with a fixed roof in combination with an internal floating roof meeting the specifications of paragraph (a)(1) of this section.	40 CFR Section 60.112b(a); Minn. R. 7011.1520(C)
The internal floating roof shall be equipped with the following closure devices between the wall of the storage vessel and the edge of the internal floating roof: (B) Two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.	40 CFR Section 60.112b(a)(1)(ii)(B); Minn. R. 7011.1520(C)
B. MONITORING REQUIREMENTS	hdr
Visually inspect the internal floating roof, the primary seal, and the secondary seal through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill as required by this paragraph.	40 CFR Section 60.113b(a)(3)(ii); Minn. R. 7011.1520(C)
Visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes, and sleeve seals (if any) each time the storage vessel is emptied and degassed as required by this paragraph. In no event shall inspections conducted in accordance with this provision occur at intervals greater than five (5) years.	40 CFR Section 60.113b(a)(3)(i); Minn. R. 7011.1520(C)
C. RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping: Maintain records showing the dimensions of the tank and an analysis showing the tank capacity. These records shall be maintained for the life of the source.	40 CFR Section 60.116b(b); Minn. R. 7011.1520(C)
Keep a record of each inspection performed as required by 40 CFR Section 60.113b(a)(1), (a)(2), (a)(3), and (a)(4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).	40 CFR Section 60.115b(a)(2); Minn. R. 7011.1520(C)
D. REPORTING REQUIREMENTS	hdr
After each inspection required by 40 CFR Section 60.113b(a)(3) that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in 40 CFR Section 60.113b(a)(3)(ii), a report shall be furnished to the Administrator within 30 days of the inspection. The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR Section 60.112b(a)(1) or 40 CFR Section 60.113b(a)(3)(ii) and list each repair made.	40 CFR Section 60.115b(a)(4); Minn. R. 7011.1520(C)
Notification: If an inspection is required (under 40 CFR Section 60.113b(a)(1) or 40 CFR Section 60.113b(a)(3)(i)), notify the Administrator in writing at least 30 days prior to filling or refilling of the storage vessel, to afford the Administrator the opportunity to have an observer present. If the inspection is not planned and the owner or operator could not have known about the inspection 30 days in advance of refilling the tank, the owner or operator shall notify the Administrator at least 7 days prior to refilling the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Administrator at least 7 days prior to refilling.	40 CFR Section 60.115b(a)(5); Minn. R. 7011.1520(C)

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **MR 001 SO2 Monitor (Coal Boilers)**

Associated Items: CM 001 Boilers 1 and 2: 1.2 lbs SO2/mmBtu, EU049, EU050, SV016, 30 DRA; 0.46 lbNOx/MMBTU

SV 016 Coal Boilers

What to do	Why to do it
The sulfur dioxide continuous monitoring system (CEMS) shall be operated and data recorded during all periods of operation of the boiler including startup, shutdown and malfunction, except for periods of acceptable monitor downtime. This requirement applies whether or not a numerical emission limit applies during these periods. A CEMS must not be bypassed except in emergencies where failure to bypass would endanger human health, safety, or plant equipment. Acceptable monitor downtime includes reasonable periods as listed in Items A, B, C and D of Minn. R. 7017.1090, subp. 2.	40 CFR Section 60.13(e)(6); Minn. R. 7017.1090, subp. 1
QA Plan: Develop and implement a written quality assurance plan that covers each CEMS. The plan shall be on site and available for inspection 30 days after monitor certification. The plan shall contain all of the information required by 40 CFR Section 60, Appendix F, section 3.	Minn. R. 7017.1170, subp. 2
CEMS Daily Calibration Drift (CD) Test: The CD shall be quantified and recorded at zero (low level) and upscale (high-level) gas concentrations at least once daily. The CEMS shall be adjusted whenever the CD exceeds twice the specification of 40 CFR 60, Appendix B. 40 CFR 60, Appendix F, shall be used to determine out-of-control periods for CEMS.	Minn. R. 7017.1170, subp. 3
Recordkeeping: The owner or operator must retain records of all CEMS monitoring data and support information for a period of five years from the date of the monitoring sample, measurement, or report. Records shall be kept at the source or at an off-site storage facility in Marshall, MN.	40 CFR Section 60.7(f); Minn. R. 7017.1130
CEMS Relative Accuracy Test Audit (RATA): due before end of each year following CEM Certification Test. If the relative accuracy is 15% or less the next CEMS RATA is not due for 24 months. Follow the procedures in 40 CFR pt. 60, Appendix F.	Minn. R. 7017.1170, subp. 5
Cylinder Gas Audit: due before end of each calendar half-year following CEM Certification Test. Conduct CGA at least 3 months apart and not greater than 8 months apart. If a RATA is performed during the calendar half-year, then the CGA is not required. Follow the procedures in 40 CFR 60, Appendix F.	Minn. R. 7017.1170, subp. 4
Continuous Operation: CEMS must be operated and data recorded during all periods of emission unit operation including periods of emission unit start-up, shutdown, or malfunction except for periods of acceptable monitor downtime. This requirement applies whether or not a numerical emission limit applies during these periods. A CEMS must not be bypassed except in emergencies where failure to bypass would endanger human health, safety, or plant equipment. Acceptable monitor downtime includes reasonable periods as listed in Items A, B, C and D of Minn. R. 7017.1090, subp. 2.	Minn. R. 7017.1090, subp. 1
QA Plan: Develop and implement a written quality assurance plan that covers each CEMS. The plan shall be on site and available for inspection within 30 days after monitor certification. The plan shall contain all of the information required by 40CFR 60, App. F, section 3.	Minn. R. 7017.1170, subp. 2

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **MR 002 O2 Monitor (Coal Boilers)**

Associated Items: CM 001 Boilers 1 and 2: 1.2 lbs SO2/mmBtu, EU049, EU050, SV016, 30 DRA; 0.46 lbNOx/MMBTU

SV 016 Coal Boilers

What to do	Why to do it
The O2 continuous monitoring system (CEMS) shall be operated and data recorded during all periods of operation of the boiler including startup, shutdown and malfunction, except for periods of acceptable monitor downtime. This requirement applies whether or not a numerical emission limit applies during these periods. A CEMS must not be bypassed except in emergencies where failure to bypass would endanger human health, safety, or plant equipment. Acceptable monitor downtime includes reasonable periods as listed in Items A, B, C and D of Minn. R. 7017.1090, subp. 2.	40 CFR Section 60.13(e)(6); Minn. R. 7017.1090, subp. 1
QA Plan: Develop and implement a written quality assurance plan that covers each CEMS. The plan shall be on site and available for inspection 30 days after monitor certification. The plan shall contain all of the information required by 40 CFR Section 60, Appendix F, section 3.	Minn. R. 7017.1170, subp. 2
CEMS Daily Calibration Drift (CD) Test: The CD shall be quantified and recorded at zero (low level) and upscale (high-level) gas concentrations at least once daily. The CEMS shall be adjusted whenever the CD exceeds twice the specification of 40 CFR 60, Appendix B. 40 CFR 60, Appendix F, shall be used to determine out-of-control periods for CEMS.	Minn. R. 7017.1170, subp. 3
Recordkeeping: The owner or operator must retain records of all CEMS monitoring data and support information for a period of five years from the date of the monitoring sample, measurement, or report. Records shall be kept at the source or at an off-site storage facility in Marshall, MN.	40 CFR Section 60.7(f); Minn. R. 7017.1130
CEMS Relative Accuracy Test Audit (RATA): due before end of each year following CEM Certification Test. If the relative accuracy is 15% or less the next CEMS RATA is not due for 24 months. Follow the procedures in 40 CFR pt. 60, Appendix F.	Minn. R. 7017.1170, subp. 5
Cylinder Gas Audit: due before end of each calendar half-year following CEM Certification Test. Conduct CGA at least 3 months apart and not greater than 8 months apart. If a RATA is performed during the calendar half-year, then the CGA is not required. Follow the procedures in 40 CFR 60, Appendix F.	Minn. R. 7017.1170, subp. 4
Continuous Operation: CEMS must be operated and data recorded during all periods of emission unit operation including periods of emission unit start-up, shutdown, or malfunction except for periods of acceptable monitor downtime. This requirement applies whether or not a numerical emission limit applies during these periods. A CEMS must not be bypassed except in emergencies where failure to bypass would endanger human health, safety, or plant equipment. Acceptable monitor downtime includes reasonable periods as listed in Items A, B, C and D of Minn. R. 7017.1090, subp. 2.	Minn. R. 7017.1090, subp. 1
QA Plan: Develop and implement a written quality assurance plan that covers each CEMS. The plan shall be on site and available for inspection within 30 days after monitor certification. The plan shall contain all of the information required by 40CFR 60, App. F, section 3.	Minn. R. 7017.1170, subp. 2

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **MR 003 NOx Monitor (Boiler #3)**

Associated Items: CM 002 Boiler 3: 0.1 lbs NOx/mmBtu, EU053, 30 DRA

SV 019 Boiler #3

What to do	Why to do it
The nitrogen oxide continuous monitoring system (CEMS) shall be operated and data recorded during all periods of operation of the boiler including startup, shutdown and malfunction, except for periods of acceptable monitor downtime. This requirement applies whether or not a numerical emission limit applies during these periods. A CEMS must not be bypassed except in emergencies where failure to bypass would endanger human health, safety, or plant equipment. Acceptable monitor downtime includes reasonable periods as listed in Items A, B, C and D of Minn. R. 7017.1090, subp. 2.	40 CFR Section 60.48b(c); 40 CFR Section 60.13(e)(6); Minn. R. 7011.0565; Minn. R. 7017.1090, subp. 1
The 1-hour average nitrogen oxides emission rates measured shall be expressed in units of lb/million Btu heat input and shall be used to calculate the average emission rates required under 40 CFR Section 60.44b.	40 CFR Section 60.48b(d); Minn. R. 7011.0565
Span Value: 500 ppm	40 CFR Section 60.48b(e)(2); Minn. R. 7011.0565
QA Plan: Develop and implement a written quality assurance plan that covers each CEMS. The plan shall be on site and available for inspection 30 days after monitor certification. The plan shall contain all of the information required by 40 CFR Section 60, Appendix F, section 3.	40 CFR pt. 60, Appendix F, section 3; Minn. R. 7017.1170, subp. 2
CEMS Daily Calibration Drift (CD) Test: The CD shall be quantified and recorded at zero (low level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) gas concentrations at least once daily. The CEMS shall be adjusted whenever the CD exceeds twice the specification of 40 CFR 60, Appendix B. 40 CFR 60, Appendix F, shall be used to determine out-of-control periods for CEMS.	40 CFR Section 60, Appendix F, section 4.1; 40 CFR Section 60.13(d)(1); Minn. R. 7017.1170, subp. 3
Recordkeeping: The owner or operator must retain records of all CEMS monitoring data and support information for a period of five years from the date of the monitoring sample, measurement, or report. Records shall be kept at the source or at an off-site storage facility in Marshall, MN.	40 CFR Section 60.7(f); Minn. R. 7017.1130
CEMS Relative Accuracy Test Audit (RATA): due before end of each year following CEM Certification Test. Follow the procedures in 40 CFR pt. 60, Appendix F.	40 CFR pt. 60, Appendix F, section 5.1.1; Minn. R. 7017.1170, subp. 5
Cylinder Gas Audit: due before end of each calendar quarter following CEM Certification Test but in no more than three calendar quarters per calendar year. The RATA shall be conducted during the calendar quarter in which a CGA is not performed.	40 CFR Section 60, Appendix F, section 5.1.2; Minn. R. 7017.1170, subp. 4

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **MR 004 O2 Monitor (Boiler #3)**

Associated Items: CM 002 Boiler 3: 0.1 lbs NOx/mmBtu, EU053, 30 DRA

SV 019 Boiler #3

What to do	Why to do it
The O2 continuous monitoring system (CEMS) shall be operated and data recorded during all periods of operation of the boiler including startup, shutdown and malfunction, except for periods of acceptable monitor downtime. This requirement applies whether or not a numerical emission limit applies during these periods. A CEMS must not be bypassed except in emergencies where failure to bypass would endanger human health, safety, or plant equipment. Acceptable monitor downtime includes reasonable periods as listed in Items A, B, C and D of Minn. R. 7017.1090, subp. 2.	40 CFR Section 60.48b(c); 40 CFR Section 60.13(e)(6); Minn. R. 7011.0565; Minn. R. 7017.1090, subp. 1
The 1-hour average nitrogen oxides emission rates measured shall be expressed in units of lb/million Btu heat input and shall be used to calculate the average emission rates required under 40 CFR Section 60.44b.	40 CFR Section 60.48b(d); Minn. R. 7011.0565
Span Value: 500 ppm	40 CFR Section 60.48b(e)(2); Minn. R. 7011.0565
QA Plan: Develop and implement a written quality assurance plan that covers each CEMS. The plan shall be on site and available for inspection 30 days after monitor certification. The plan shall contain all of the information required by 40 CFR Section 60, Appendix F, section 3.	40 CFR pt. 60, Appendix F, section 3; Minn. R. 7017.1170, subp. 2
CEMS Daily Calibration Drift (CD) Test: The CD shall be quantified and recorded at zero (low level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) gas concentrations at least once daily. The CEMS shall be adjusted whenever the CD exceeds twice the specification of 40 CFR 60, Appendix B. 40 CFR 60, Appendix F, shall be used to determine out-of-control periods for CEMS.	40 CFR Section 60, Appendix F, section 4.1; 40 CFR Section 60.13(d)(1); Minn. R. 7017.1170, subp. 3
Recordkeeping: The owner or operator must retain records of all CEMS monitoring data and support information for a period of five years from the date of the monitoring sample, measurement, or report. Records shall be kept at the source or at an off-site storage facility in Marshall, MN.	40 CFR Section 60.7(f); Minn. R. 7017.1130
CEMS Relative Accuracy Test Audit (RATA): due before end of each year following CEM Certification Test. Follow the procedures in 40 CFR pt. 60, Appendix F.	40 CFR pt. 60, Appendix F, section 5.1.1; Minn. R. 7017.1170, subp. 5
Cylinder Gas Audit: due before end of each calendar quarter following CEM Certification Test but in no more than three calendar quarters per calendar year. The RATA shall be conducted during the calendar quarter in which a CGA is not performed.	40 CFR Section 60, Appendix F, section 5.1.2; Minn. R. 7017.1170, subp. 4

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **MR 005 NOx Monitor (Boiler #4)**

Associated Items: CM 003 Boiler 4: 0.1 lbs NOx/mmBtu, EU054, 30 DRA

SV 020 Boiler #4

What to do	Why to do it
The nitrogen oxide continuous monitoring system (CEMS) shall be operated and data recorded during all periods of operation of the boiler including startup, shutdown and malfunction, except for periods of acceptable monitor downtime. This requirement applies whether or not a numerical emission limit applies during these periods. A CEMS must not be bypassed except in emergencies where failure to bypass would endanger human health, safety, or plant equipment. Acceptable monitor downtime includes reasonable periods as listed in Items A, B, C and D of Minn. R. 7017.1090, subp. 2.	40 CFR Section 60.48b(c); 40 CFR Section 60.13(e)(6); Minn. R. 7011.0565; Minn. R. 7017.1090, subp. 1
The 1-hour average nitrogen oxides emission rates measured shall be expressed in units of lb/million Btu heat input and shall be used to calculate the average emission rates required under 40 CFR Section 60.44b.	40 CFR Section 60.48b(d); Minn. R. 7011.0565
Span Value: 500 ppm	40 CFR Section 60.48b(e)(2); Minn. R. 7011.0565
QA Plan: Develop and implement a written quality assurance plan that covers each CEMS. The plan shall be on site and available for inspection 30 days after monitor certification. The plan shall contain all of the information required by 40 CFR Section 60, Appendix F, section 3.	40 CFR pt. 60, Appendix F, section 3; Minn. R. 7017.1170, subp. 2
CEMS Daily Calibration Drift (CD) Test: The CD shall be quantified and recorded at zero (low level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) gas concentrations at least once daily. The CEMS shall be adjusted whenever the CD exceeds twice the specification of 40 CFR 60, Appendix B. 40 CFR 60, Appendix F, shall be used to determine out-of-control periods for CEMS.	40 CFR Section 60, Appendix F, section 4.1; 40 CFR Section 60.13(d)(1); Minn. R. 7017.1170, subp. 3
Recordkeeping: The owner or operator must retain records of all CEMS monitoring data and support information for a period of five years from the date of the monitoring sample, measurement, or report. Records shall be kept at the source or at an off-site storage facility in Marshall, MN.	40 CFR Section 60.7(f); Minn. R. 7017.1130
CEMS Relative Accuracy Test Audit (RATA): due before end of each year following CEM Certification Test. Follow the procedures in 40 CFR pt. 60, Appendix F.	40 CFR pt. 60, Appendix F, section 5.1.1; Minn. R. 7017.1170, subp. 5
Cylinder Gas Audit: due before end of each calendar quarter following CEM Certification Test but in no more than three calendar quarters per calendar year. The RATA shall be conducted during the calendar quarter in which a CGA is not performed.	40 CFR Section 60, Appendix F, section 5.1.2; Minn. R. 7017.1170, subp. 4

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **MR 006 O2 Monitor (Boiler #4)**

Associated Items: CM 003 Boiler 4: 0.1 lbs NOx/mmBtu, EU054, 30 DRA

SV 020 Boiler #4

What to do	Why to do it
The O2 continuous monitoring system (CEMS) shall be operated and data recorded during all periods of operation of the boiler including startup, shutdown and malfunction, except for periods of acceptable monitor downtime. This requirement applies whether or not a numerical emission limit applies during these periods. A CEMS must not be bypassed except in emergencies where failure to bypass would endanger human health, safety, or plant equipment. Acceptable monitor downtime includes reasonable periods as listed in Items A, B, C and D of Minn. R. 7017.1090, subp. 2.	40 CFR Section 60.48b(c); 40 CFR Section 60.13(e)(6); Minn. R. 7011.0565; Minn. R. 7017.1090, subp. 1
The 1-hour average nitrogen oxides emission rates measured shall be expressed in units of lb/million Btu heat input and shall be used to calculate the average emission rates required under 40 CFR Section 60.44b.	40 CFR Section 60.48b(d); Minn. R. 7011.0565
Span Value: 500 ppm	40 CFR Section 60.48b(e)(2); Minn. R. 7011.0565
QA Plan: Develop and implement a written quality assurance plan that covers each CEMS. The plan shall be on site and available for inspection 30 days after monitor certification. The plan shall contain all of the information required by 40 CFR Section 60, Appendix F, section 3.	40 CFR pt. 60, Appendix F, section 3; Minn. R. 7017.1170, subp. 2
CEMS Daily Calibration Drift (CD) Test: The CD shall be quantified and recorded at zero (low level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) gas concentrations at least once daily. The CEMS shall be adjusted whenever the CD exceeds twice the specification of 40 CFR 60, Appendix B. 40 CFR 60, Appendix F, shall be used to determine out-of-control periods for CEMS.	40 CFR Section 60, Appendix F, section 4.1; 40 CFR Section 60.13(d)(1); Minn. R. 7017.1170, subp. 3
Recordkeeping: The owner or operator must retain records of all CEMS monitoring data and support information for a period of five years from the date of the monitoring sample, measurement, or report. Records shall be kept at the source or at an off-site storage facility in Marshall, MN.	40 CFR Section 60.7(f); Minn. R. 7017.1130
CEMS Relative Accuracy Test Audit (RATA): due before end of each year following CEM Certification Test. Follow the procedures in 40 CFR pt. 60, Appendix F.	40 CFR pt. 60, Appendix F, section 5.1.1; Minn. R. 7017.1170, subp. 5
Cylinder Gas Audit: due before end of each calendar quarter following CEM Certification Test but in no more than three calendar quarters per calendar year. The RATA shall be conducted during the calendar quarter in which a CGA is not performed.	40 CFR Section 60, Appendix F, section 5.1.2; Minn. R. 7017.1170, subp. 4

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Subject Item: **MR 007 NOx Monitor (Coal Boilers)**

Associated Items: CM 001 Boilers 1 and 2: 1.2 lbs SO2/mmBtu, EU049, EU050, SV016, 30 DRA; 0.46 lbNOx/MMBTU

SV 016 Coal Boilers

What to do	Why to do it
The nitrogen oxide continuous monitoring system (CEMS) shall be operated and data recorded during all periods of operation of the boiler including startup, shutdown and malfunction, except for periods of acceptable monitor downtime. This requirement applies whether or not a numerical emission limit applies during these periods. A CEMS must not be bypassed except in emergencies where failure to bypass would endanger human health, safety, or plant equipment. Acceptable monitor downtime includes reasonable periods as listed in Items A, B, C and D of Minn. R. 7017.1090, subp. 2.	40 CFR Section 60.48b(c); 40 CFR Section 60.13(e)(6); Minn. R. 7011.0565; Minn. R. 7017.1090, subp. 1
The 1-hour average nitrogen oxides emission rates measured shall be expressed in units of lb/million Btu heat input and shall be used to calculate the average emission rates required under 40 CFR Section 60.44b.	40 CFR Section 60.48b(d); Minn. R. 7011.0565
Span Value: 500 ppm	40 CFR Section 60.48b(e)(2); Minn. R. 7011.0565
QA Plan: Develop and implement a written quality assurance plan that covers each CEMS. The plan shall be on site and available for inspection 30 days after monitor certification. The plan shall contain all of the information required by 40 CFR Section 60, Appendix F, section 3.	40 CFR pt. 60, Appendix F, section 3; Minn. R. 7017.1170, subp. 2
CEMS Daily Calibration Drift (CD) Test: The CD shall be quantified and recorded at zero (low level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) gas concentrations at least once daily. The CEMS shall be adjusted whenever the CD exceeds twice the specification of 40 CFR 60, Appendix B. 40 CFR 60, Appendix F, shall be used to determine out-of-control periods for CEMS.	40 CFR Section 60, Appendix F, section 4.1; 40 CFR Section 60.13(d)(1); Minn. R. 7017.1170, subp. 3
Recordkeeping: The owner or operator must retain records of all CEMS monitoring data and support information for a period of five years from the date of the monitoring sample, measurement, or report. Records shall be kept at the source or at an off-site storage facility in Marshall, MN.	40 CFR Section 60.7(f); Minn. R. 7017.1130
CEMS Relative Accuracy Test Audit (RATA): due before end of each year following CEM Certification Test. Follow the procedures in 40 CFR pt. 60, Appendix F.	40 CFR pt. 60, Appendix F, section 5.1.1; Minn. R. 7017.1170, subp. 5
Cylinder Gas Audit: due before end of each calendar quarter following CEM Certification Test but in no more than three calendar quarters per calendar year. The RATA shall be conducted during the calendar quarter in which a CGA is not performed.	40 CFR Section 60, Appendix F, section 5.1.2; Minn. R. 7017.1170, subp. 4

TABLE B: SUBMITTALS

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

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:

AQ Permit Technical Advisor
Industrial 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:

AQ Compliance Tracking Coordinator
Industrial 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

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

What to send	When to send	Portion of Facility Affected
Application for Permit Reissuance	due 180 days before expiration of Existing Permit Submit all permit applications to the Air Quality Permit Technical Advisor, Minnesota Pollution Control Agency, Metro District/Major Facilities, 520 Lafayette Road North, St. Paul, MN 55155	Total Facility
Notification of the Actual Date of Initial Startup	due 15 days after Initial Startup after completion of construction of the biogas project in Permit Action 007.	SV011
Notification of the Date Construction Began	due 30 days after Start Of Construction for the biogas project in Permit Action 007.	SV011
Relative Accuracy Test Audit (RATA) Notification	due 30 days before CEMS Relative Accuracy Test Audit (RATA)	MR001, MR002, MR003, MR004, MR005, MR006, MR007
Testing Frequency Plan	due 60 days after Initial Performance Test for particulate matter and PM10. The plan shall specify a testing frequency based on test data and MPCA guidance. Future performance tests based on year (12-month), 36 month, or 60-month intervals, or as applicable, shall be required upon written approval of MPCA.	SV030
Testing Frequency Plan	due 60 days after Initial Performance Test for particulate matter, PM10, and SO2. The plan shall specify a testing frequency based on test data and MPCA guidance. Future performance tests based on year (12-month), 36 month, or 60-month intervals, or as applicable, shall be required upon written approval of MPCA.	SV033
Testing Frequency Plan	due 60 days after Initial Performance Test for sulfur dioxide. The plan shall specify a testing frequency based on test data and MPCA guidance. Future performance tests based on year (12-month), 36 month, or 60-month intervals, or as applicable, shall be required upon written approval of MPCA.	SV015

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

What to send	When to send	Portion of Facility Affected
Cylinder Gas Audit (CGA) Results Summary	due 30 days after end of each calendar quarter following CEMS Cylinder Gas Audit (CGA)	MR001, MR002, MR003, MR004, MR005, MR006, MR007
Excess Emissions/Downtime Reports (EER's)	due 30 days after end of each calendar quarter following Permit Issuance of PER 007 (use Deviations Reporting Form DRF-1 as amended). The EER must contain all of the information requested in 40 CFR Section 60.7(c). The EER shall indicate all periods of monitor bypass and all periods of exceedances of the limit including exceedances allowed during startup, shutdown, and malfunction.	MR007
Excess Emissions/Downtime Reports (EER's)	due 30 days after end of each calendar quarter starting 08/08/2000 (use Deviations Reporting Form DRF-1 as amended). The EER must contain all of the information requested in 40 CFR Section 60.7(c). The EER shall indicate all periods of monitor bypass and all periods of exceedances of the limit including exceedances allowed during startup, shutdown, and malfunction.	MR003, MR004, MR005, MR006
Excess Emissions/Downtime Reports (EER's)	due 30 days after end of each calendar quarter starting 08/08/2000 (Submit Deviations Reporting Form DRF-1 as amended). The EER shall indicate all periods of monitor bypass and all periods of exceedances of the limit including exceedances allowed by an applicable standard, i.e. during startup, shutdown, and malfunctions.	MR001, MR002
Quarterly Report	due 30 days after end of each calendar quarter starting 08/08/2000 . Report must contain all of the information listed in 40 CFR 60.49b(g).	SV020
Quarterly Report	due 30 days after end of each calendar quarter starting 08/16/2001 . Report must contain all of the information listed in 40 CFR 60.49b(g).	SV019
Relative Accuracy Test Audit (RATA) Results Summary	due 30 days after end of each calendar quarter following CEMS Relative Accuracy Test Audit (RATA)	MR001, MR002, MR003
Relative Accuracy Test Audit (RATA) Results Summary	due 30 days after end of each calendar quarter following CEMS Relative Accuracy Test Audit (RATA)	MR004
Relative Accuracy Test Audit (RATA) Results Summary	due 30 days after end of each calendar quarter following CEMS Relative Accuracy Test Audit (RATA)	MR005
Relative Accuracy Test Audit (RATA) Results Summary	due 30 days after end of each calendar quarter following CEMS Relative Accuracy Test Audit (RATA)	MR006
Relative Accuracy Test Audit (RATA) Results Summary	due 30 days after end of each calendar quarter following CEMS Relative Accuracy Test Audit (RATA)	MR007
Semiannual Deviations Report	due 30 days after end of each calendar half-year starting 08/08/2000 . 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. The report shall be sent to: Air Quality Compliance Tracking Coordinator, Minnesota Pollution Control Agency, 520 Lafayette Road North, St. Paul, MN 55155	Total Facility

Facility Name: ADM Corn Processing - Marshall

Permit Number: 08300038 - 007

Compliance Certification	due 30 days after end of each calendar year starting 08/08/2000 (for the previous calendar year). To be submitted on a form approved by the Commissioner , both to the Commissioner, and to the U.S. EPA regional office in Chicago. This report covers all deviations experienced during the calendar year. The EPA copy shall be sent to: Mr. George Czerniak, Chief, Air Enforcement and Compliance Assurance Branch, Air and Radiation Division, EPA Region V, 77 West Jackson Boulevard, Chicago, Illinois 60604. The MPCA copy shall be sent to: Air Quality Compliance Tracking Coordinator, Minnesota Pollution Control Agency, 520 Lafayette Road North, St. Paul, MN 55155.	Total Facility
Equipment List	due 30 days after end of each calendar year starting 08/16/2001 . The equipment list shall include a complete description of each piece of equipment described by EU001, EU003, EU004, EU007, EU008, EU064 and EU065. The description shall include the manufacturer, model number, capacity, and date of original installation. The description shall also identify each piece of equipment using a unique identification number. If no equipment changes have been made since submittal of the previous equipment list, then submittal of a new equipment list is not required and only a statement that no equipment changes have been made is required to be submitted.	Total Facility

APPENDIX MATERIAL
Facility Name:ADM Corn Processing - Marshall
Permit Number: 08300038-007

Appendix I – Modeling Parameters Used for ADM-Marshall, Lyon County, Minnesota

Hardcopy Report Submittal
ADM-Marshall Gluten Flash Dryer Biogas Project, Revised Air Quality Modeling Analysis for ADM Marshall Corn Processing Facility, prepared by McVehil-Monnett, Inc., October 2005 (revised March 2006).

Electronic (CD-ROM) Submittal
ADM Marshall Input/Output Files for ISCST3, BPIP, and AERMAP, prepared by McVehil-Monnett Associates, Inc., March 2006.

Appendix III – Full Details
See CD-ROM for full data details.

Appendix III – Summary Report (A Computer-Generated "REPORT" Format with Simple Headers, Simple Sources, and Selected Parameters)
The summary report is for simple (constant) emission rates and corresponding stack/source parameters. It does not fully document details regarding model control options, emission rates with varying emission scalars, corresponding stack/source parameters, wind speed categories for wind erosion, building profile input program (BPIP) outputs, various output selections (e.g., EVENTFIL, MULTYEAR, PLOTFILE, POSTFILE, MAXIFILE), applicable "INCLUDED" file information, receptor grids, or other special features described in the following EPA modeling user guides:

ISCST3: http://www.epa.gov/scram001/userg/regmod/isc3v1.pdf

AERMOD: http://www.epa.gov/scram001/7thconf/aermod/aermodugb.pdf

Note: Separate tables are shown for CO, NOX, SO2, and PM10. If any difference exists between summary values in this appendix vs. the hardcopy report vs. the electronic CD-ROM modeled values, the electronic CD-ROM modeled values prevail.

Supplemental Information for ADM-Marshall, Lyon County, Minnesota

Site-Specific PM10 Emission Factor (Paved Roads – 2001 Study and 2003 Study)
The PM10 modeling reflects site-specific PM10 paved road emission factors as summarized below:

- 0.150 lb/vmt (2001 study without road cleaning) for slow and stop-and-go truck traffic;
- 0.057 lb/vmt (2003 study w/daily road cleaning) for corn trucks in stop-and-go traffic;
- 0.015 lb/vmt (2003 study w/daily road cleaning) for other slow-moving truck traffic;

Midwest Research Institute (MRI) conducted both studies using the exposure profiling method.

Daily Road Cleaning (Weather Permitting)
ADM-Marshall uses the Elgin Crosswind J (regenerative air sweeper) to sweep/vacuum/wash all haul roads every day (weather permitting).

In letter dated February 1, 2006, Mr. Glenn Giefer of ADM states the sweeper is used 7-days a week from spring through fall. Each day of operation is logged on a spreadsheet. If the sweeper is not used, the operator must state the reason (usually rain) and print a weather report confirming the rain event. The winterization of the sweeper is basically weather dependent at this point. The schedule of the sweeper since its purchase has been:

- April 8, 2003 through November 20, 2003;
- March 19, 2004 through October 10, 2004;
- April 14, 2003 through October 31, 2005;

ADM-Marshall voluntarily implemented this procedure in 2003 in anticipation of MPCA reviewing both road emission model reports and approving lower emission factors and subsequent sweeper program as an enforceable part of the permit which potentially would include sweeping and periodic testing. MPCA is now acting on this request and has incorporated the following additional permit conditions:

- Posted signs with a speed limit of 5 MPH (to comport with 2001/2003 study conditions);
- Daily haul road cleaning with Elgin Crosswind J sweeper from March 1 through November 30 (ISCST3 02035 modeling assumptions);
- Periodic testing will be addressed later (i.e., Carbon Furnace Number 1 project expected later in 2006 using AERMOD 04300);

Note: The Elgin Crosswind J meets South Coast Air Quality Management District (SCAQMD) Rule 1186 (80% control or better). For more information on the Elgin Crosswind J, please see: http://www.elginsweeper.com/crosswindJ/index.asp

Permit Application (ISCST3 02035) Modeling
With the above assumptions (e.g., daily haul road cleaning for March 1 – November 30; 14-hour operating days), ISCST3 02035 modeling results indicate high-second-high (H2H) 24-hour PM10 increment consumption of 25.5, 24.7, 27.0, 24.3, and 22.0 ug/m3 with respective 1982 to 1986 Sioux Falls (surface) and concurrent St. Cloud (upper air) meteorological data. Other pollutants are less than ambient standards and applicable PSD increment ceiling values by more than EPA-defined significant impact levels of 25 ug/m3 (3-hour), 5 ug/m3 (24-hour), and 1 ug/m3 (annual).

Supplemental MPCA (AERMOD 04300) Modeling: 24-Hour PM10 Increment Consumption
MPCA conducted supplemental AERMOD 04300 modeling with one year (1986) of Rochester (surface) and concurrent St. Cloud (upper air) meteorological data (RS445960.ZIP) – this meteorological data is available at: ftp://files.pca.state.mn.us/pub/airModel2/

Key Assumptions: “winter” road conditions year round (i.e., 0.15 lb/vmt – no road cleaning); other assumptions unchanged.

Modeling Results: H2H 24-hour PM10 increment of 28.55 ug/m3.

C:\PROJECTS\ADMMAR06\MAR_06TH\ADMCO86.OUT

**This Run Includes: 39 Source(s); 1 Source Group(s); and 3123 Receptor(s)

AREA SRCIDNT EASTINGNORTHING ELEV(M) G/SEC #/HOUR T/YEAR HGT(M) HGT(FT) XDIM(M) YDIM(M)
VOLUME SRCIDNT EASTINGNORTHING ELEV(M) G/SEC #/HOUR T/YEAR HGT(M) HGT(FT) SYI(M) SZI(M)
AREACIRC SRCIDNT EASTINGNORTHING ELEV(M) G/SEC #/HOUR T/YEAR HGT(M) HGT(FT) RADIUS #VERTS.
AREAPOLY SRCIDNT EASTINGNORTHING ELEV(M) G/SEC #/HOUR T/YEAR HGT(M) HGT(FT) #VERTS. SZI(M)
POINT SRCIDNT EASTINGNORTHING ELEV(M) G/SEC #/HOUR T/YEAR HGT(M) HGT(FT) DIA(M) DIA(FT) DEG(K) DEG(C) DEG(F) VS(M/S) VS(F/M)
ACFM

POINT STK02	278807	4928804	348	0.00	0.00	0.00	61.30	201.12	1.140	3.740	283.	10.	50.	18.90	3720.47	40876
POINT STK03	278697	4928525	348	0.00	0.00	0.00	38.40	125.98	0.490	1.608	283.	10.	50.	0.01	1.97	4
POINT STK04	278801	4928779	348	0.00	0.00	0.00	36.60	120.08	0.460	1.509	283.	10.	50.	14.95	2942.91	5264
POINT STK05	278811	4928771	348	0.00	0.00	0.00	13.72	45.01	0.120	0.394	283.	10.	50.	25.01	4923.23	599
POINT STK06	278724	4928532	348	0.00	0.00	0.00	59.70	195.87	1.220	4.003	322.	49.	120.	20.21	3978.35	50059
POINT STK07	278670	4928569	348	0.00	0.00	0.00	45.90	150.59	1.520	4.987	311.	38.	100.	27.42	5397.64	105427
POINT STK08	278664	4928572	348	0.00	0.00	0.00	31.20	102.36	0.350	1.148	289.	16.	60.	0.01	1.97	2
POINT STK09	278716	4928571	348	0.00	0.00	0.00	50.30	165.03	0.910	2.986	322.	49.	120.	12.94	2547.24	17833
POINT STK10	278695	4928567	348	0.00	0.00	0.00	45.70	149.93	1.220	4.003	322.	49.	120.	20.21	3978.35	50059
POINT STK11	278710	4928648	348	11.35	90.06	394.42	56.10	184.06	2.510	8.235	339.	66.	150.	10.07	1982.28	105578
POINT STK12	278713	4928573	348	28.10	223.00	976.69	45.72	150.00	0.610	2.001	561.	288.	550.	8.09	1592.52	5010
POINT STK13	278681	4928349	348	0.61	4.86	21.29	42.30	138.78	0.610	2.001	361.	88.	190.	6.33	1246.06	3920
POINT STK14	278679	4928357	348	0.61	4.86	21.29	42.30	138.78	0.610	2.001	367.	94.	201.	7.90	1555.12	4892
POINT STK15	278827	4928590	348	0.00	0.00	0.00	24.39	80.02	0.460	1.509	305.	32.	89.	13.80	2716.54	4859
POINT STK16	278750	4928568	348	6.04	47.94	209.96	61.00	200.13	1.680	5.512	450.	177.	350.	15.82	3114.17	74305
POINT STK17	278745	4928612	348	0.00	0.00	0.00	18.30	60.04	0.170	0.558	283.	10.	50.	0.01	1.97	0
POINT STK18	278740	4928614	348	0.00	0.00	0.00	18.30	60.04	0.200	0.656	283.	10.	50.	0.01	1.97	1
POINT STK19	278724	4928598	348	3.59	28.53	124.96	45.72	150.00	1.520	4.987	446.	173.	343.	13.87	2730.31	53329
POINT STK20	278738	4928592	348	4.86	38.56	168.88	45.72	150.00	1.620	5.315	461.	188.	370.	17.48	3440.94	76343
POINT STK22	279171	4928575	348	0.37	2.96	12.97	30.00	98.43	0.380	1.247	1200.	927.	1700.	23.00	4527.56	5527
POINT STK23	278660	4928590	348	0.00	0.00	0.00	42.40	139.11	1.220	4.003	294.	21.	69.	15.36	3023.62	38046
POINT STK24	278802	4928799	348	0.00	0.00	0.00	37.60	123.36	0.200	0.656	283.	10.	50.	0.01	1.97	1
POINT STK25	278702	4928471	348	0.00	0.00	0.00	35.10	115.16	0.150	0.492	283.	10.	50.	0.01	1.97	0
POINT STK26	278705	4928477	348	0.00	0.00	0.00	35.10	115.16	0.150	0.492	283.	10.	50.	0.01	1.97	0
POINT STK27	278710	4928489	348	0.00	0.00	0.00	35.10	115.16	0.150	0.492	283.	10.	50.	0.01	1.97	0
POINT STK28	278714	4928501	348	0.00	0.00	0.00	35.10	115.16	0.150	0.492	283.	10.	50.	0.01	1.97	0
POINT STK29	278866	4928681	348	0.00	0.00	0.00	24.70	81.04	0.300	0.984	310.	37.	99.	0.01	1.97	1
POINT STK30	278667	4928586	348	0.00	0.00	0.00	44.20	145.01	1.070	3.510	315.	42.	107.	19.85	3907.48	37820
POINT STK31	278718	4928512	348	0.00	0.00	0.00	35.10	115.16	0.150	0.492	283.	10.	50.	0.01	1.97	0
POINT STK32	278723	4928527	348	0.00	0.00	0.00	35.10	115.16	0.150	0.492	283.	10.	50.	0.01	1.97	0
POINT STK33	278875	4928696	348	0.00	0.00	0.00	21.00	68.90	0.610	2.001	305.	32.	90.	16.17	3183.07	10013
POINT STK34	278662	4928578	348	0.00	0.00	0.00	30.80	101.05	1.520	4.987	289.	16.	60.	0.36	70.87	1384
POINT STK35	279180	4928440	348	0.00	0.00	0.00	10.50	34.45	0.130	0.427	283.	10.	50.	0.01	1.97	0
POINT STK36	279148	4928499	348	0.00	0.00	0.00	14.90	48.88	0.180	0.591	283.	10.	50.	0.01	1.97	1
POINT STK37	279148	4928505	348	0.00	0.00	0.00	15.20	49.87	0.180	0.591	283.	10.	50.	0.01	1.97	1
POINT STK38	279143	4928540	348	0.00	0.04	0.17	15.20	49.87	0.200	0.656	505.	232.	450.	4.02	791.34	268
POINT STK39	278812	4929079	348	0.02	0.13	0.57	4.70	15.42	0.510	1.673	450.	177.	350.	2.13	419.29	922
POINT STK41	278661	4928517	348	0.00	0.00	0.00	24.40	80.05	0.130	0.427	283.	10.	50.	20.04	3944.88	564
POINT STK43	278637	4928533	348	0.00	0.00	0.00	29.00	95.14	0.150	0.492	283.	10.	50.	36.22	7129.92	1356
TOTAL				55.56	440.94	1931.19										

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 *** ISCST3 - VERSION 02035 ***    *** Minnesota Corn Processors Marshall Site 1986 NO2                    ***        11/30/05
                                   ***                                                                    ***        14:52:39
 C:\PROJECTS\ADMMAR06\MAR_06TH\ADMNOX86.OUT
 **This Run Includes:   102 Source(s);      3 Source Group(s); and    3123 Receptor(s)
     AREA SRCIDNT EASTINGNORTHING ELEV(M)   G/SEC  #/HOUR  T/YEAR  HGT(M) HGT(FT) XDIM(M) YDIM(M)
   VOLUME SRCIDNT EASTINGNORTHING ELEV(M)   G/SEC  #/HOUR  T/YEAR  HGT(M) HGT(FT)  SYI(M)  SZI(M)
 AREACIRC SRCIDNT EASTINGNORTHING ELEV(M)   G/SEC  #/HOUR  T/YEAR  HGT(M) HGT(FT) RADIUS  #VERTS.
 AREAPOLY SRCIDNT EASTINGNORTHING ELEV(M)   G/SEC  #/HOUR  T/YEAR  HGT(M) HGT(FT) #VERTS.  SZI(M)
    POINT SRCIDNT EASTINGNORTHING ELEV(M)   G/SEC  #/HOUR  T/YEAR  HGT(M) HGT(FT)  DIA(M) DIA(FT)  DEG(K)  DEG(C)  DEG(F) VS(M/S) VS(F/M)
ACFM
  ------- ------- ------- ------- ------- ------- ------- ------- ------- ------- ------- ------- ------- ------- ------- ------- ------
-
POINT STK02     278807 4928804     348    0.00    0.00    0.00   61.30  201.12   1.140   3.740    283.     10.     50.   18.90 3720.47   40876
POINT STK03     278697 4928525     348    0.00    0.00    0.00   38.40  125.98   0.490   1.608    283.     10.     50.    0.01    1.97       4
POINT STK04     278801 4928779     348    0.00    0.00    0.00   36.60  120.08   0.460   1.509    283.     10.     50.   14.95 2942.91    5264
POINT STK05     278811 4928771     348    0.00    0.00    0.00   13.72   45.01   0.120   0.394    283.     10.     50.   25.01 4923.23     599
POINT STK06     278724 4928532     348    0.00    0.00    0.00   59.70  195.87   1.220   4.003    322.     49.    120.   20.21 3978.35   50059
POINT STK07     278670 4928569     348    0.00    0.00    0.00   45.90  150.59   1.520   4.987    311.     38.    100.   27.42 5397.64  105427
POINT STK08     278664 4928572     348    0.00    0.00    0.00   31.20  102.36   0.350   1.148    289.     16.     60.    0.01    1.97       2
POINT STK09     278716 4928571     348    0.00    0.00    0.00   50.30  165.03   0.910   2.986    322.     49.    120.   12.94 2547.24   17833
POINT STK10     278695 4928567     348    0.00    0.00    0.00   45.70  149.93   1.220   4.003    322.     49.    120.   20.21 3978.35   50059
POINT STK11     278710 4928648     348    0.39    3.07   13.45   56.10  184.06   2.510   8.235    339.     66.    150.   10.07 1982.28  105578
POINT STK12     278713 4928573     348    0.34    2.67   11.68   45.72  150.00   0.610   2.001    561.    288.    550.    8.09 1592.52    5010
POINT STK13     278681 4928349     348    0.43    3.38   14.80   42.30  138.78   0.610   2.001    361.     88.    190.    6.33 1246.06    3920
POINT STK14     278679 4928357     348    0.43    3.38   14.80   42.30  138.78   0.610   2.001    367.     94.    201.    7.90 1555.12    4892
POINT STK15     278827 4928590     348    0.00    0.00    0.00   24.39   80.02   0.460   1.509    305.     32.     89.   13.80 2716.54    4859
POINT STK16     278750 4928568     348    8.69   68.93  301.90   61.00  200.13   1.680   5.512    450.    177.    350.   15.82 3114.17   74305
POINT STK17     278745 4928612     348    0.00    0.00    0.00   18.30   60.04   0.170   0.558    283.     10.     50.    0.01    1.97       0
POINT STK18     278740 4928614     348    0.00    0.00    0.00   18.30   60.04   0.200   0.656    283.     10.     50.    0.01    1.97       1
POINT STK19     278724 4928598     348    2.81   22.31   97.71   45.72  150.00   1.520   4.987    446.    173.    343.   13.87 2730.31   53329
POINT STK20     278738 4928592     348    3.04   24.10  105.55   45.72  150.00   1.620   5.315    461.    188.    370.   17.48 3440.94   76343
POINT STK22     279171 4928575     348    0.07    0.55    2.41   30.00   98.43   0.380   1.247   1200.    927.   1700.   23.00 4527.56    5527
POINT STK23     278660 4928590     348    0.00    0.00    0.00   42.40  139.11   1.220   4.003    294.     21.     69.   15.36 3023.62   38046
POINT STK24     278802 4928799     348    0.00    0.00    0.00   37.60  123.36   0.200   0.656    283.     10.     50.    0.01    1.97       1
POINT STK25     278702 4928471     348    0.00    0.00    0.00   35.10  115.16   0.150   0.492    283.     10.     50.    0.01    1.97       0
POINT STK26     278705 4928477     348    0.00    0.00    0.00   35.10  115.16   0.150   0.492    283.     10.     50.    0.01    1.97       0
POINT STK27     278710 4928489     348    0.00    0.00    0.00   35.10  115.16   0.150   0.492    283.     10.     50.    0.01    1.97       0
POINT STK28     278714 4928501     348    0.00    0.00    0.00   35.10  115.16   0.150   0.492    283.     10.     50.    0.01    1.97       0
POINT STK29     278866 4928681     348    0.00    0.00    0.00   24.70   81.04   0.300   0.984    310.     37.     99.    0.01    1.97       1
POINT STK30     278667 4928586     348    0.00    0.00    0.00   44.20  145.01   1.070   3.510    315.     42.    107.   19.85 3907.48   37820
POINT STK31     278718 4928512     348    0.00    0.00    0.00   35.10  115.16   0.150   0.492    283.     10.     50.    0.01    1.97       0
POINT STK32     278723 4928527     348    0.00    0.00    0.00   35.10  115.16   0.150   0.492    283.     10.     50.    0.01    1.97       0
POINT STK33     278875 4928696     348    0.00    0.00    0.00   21.00   68.90   0.610   2.001    305.     32.     90.   16.17 3183.07   10013
POINT STK34     278662 4928578     348    0.00    0.00    0.00   30.80  101.05   1.520   4.987    289.     16.     60.    0.36   70.87    1384
POINT STK35     279180 4928440     348    0.00    0.00    0.00   10.50   34.45   0.130   0.427    283.     10.     50.    0.01    1.97       0
POINT STK36     279148 4928499     348    0.00    0.00    0.00   14.90   48.88   0.180   0.591    283.     10.     50.    0.01    1.97       1
POINT STK37     279148 4928505     348    0.00    0.00    0.00   15.20   49.87   0.180   0.591    283.     10.     50.    0.01    1.97       1
POINT STK38     279143 4928540     348    0.01    0.10    0.44   15.20   49.87   0.200   0.656    505.    232.    450.    4.02  791.34     268
POINT STK39     278812 4929079     348    0.03    0.20    0.88    4.70   15.42   0.510   1.673    450.    177.    350.    2.13  419.29     922
POINT STK41     278661 4928517     348    0.00    0.00    0.00   24.40   80.05   0.130   0.427    283.     10.     50.   20.04 3944.88     564
POINT STK43     278637 4928533     348    0.00    0.00    0.00   29.00   95.14   0.150   0.492    283.     10.     50.   36.22 7129.92    1356
   TOTAL                                  16.21  128.69  563.62
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 *** ISCST3 - VERSION 02035 ***    *** Minnesota Corn Processors Marshall Site 1986 SO2                    ***        11/30/05
                                   ***                                                                    ***        17:33:26
 C:\PROJECTS\ADMMAR06\MAR_06TH\ADMSO286.OUT
 **This Run Includes:   106 Source(s);     11 Source Group(s); and    3123 Receptor(s)
     AREA SRCIDNT EASTINGNORTHING ELEV(M)   G/SEC  #/HOUR  T/YEAR  HGT(M) HGT(FT) XDIM(M) YDIM(M)
   VOLUME SRCIDNT EASTINGNORTHING ELEV(M)   G/SEC  #/HOUR  T/YEAR  HGT(M) HGT(FT)  SYI(M)  SZI(M)
 AREACIRC SRCIDNT EASTINGNORTHING ELEV(M)   G/SEC  #/HOUR  T/YEAR  HGT(M) HGT(FT) RADIUS  #VERTS.
 AREAPOLY SRCIDNT EASTINGNORTHING ELEV(M)   G/SEC  #/HOUR  T/YEAR  HGT(M) HGT(FT) #VERTS.  SZI(M)
    POINT SRCIDNT EASTINGNORTHING ELEV(M)   G/SEC  #/HOUR  T/YEAR  HGT(M) HGT(FT)  DIA(M) DIA(FT)  DEG(K)  DEG(C)  DEG(F) VS(M/S) VS(F/M)
ACFM
  ------- ------- ------- ------- ------- ------- ------- ------- ------- ------- ------- ------- ------- ------- ------- ------- ------
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POINT STK02     278807 4928804     348    0.00    0.00    0.00   61.30  201.12   1.140   3.740    283.     10.     50.   18.90 3720.47   40876
POINT STK03     278697 4928525     348    0.00    0.00    0.00   38.40  125.98   0.490   1.608    283.     10.     50.    0.01    1.97       4
POINT STK04     278801 4928779     348    0.00    0.00    0.00   36.60  120.08   0.460   1.509    283.     10.     50.   14.95 2942.91    5264
POINT STK05     278811 4928771     348    0.00    0.00    0.00   13.72   45.01   0.120   0.394    283.     10.     50.   25.01 4923.23     599
POINT STK06     278724 4928532     348    1.89   14.97   65.56   59.70  195.87   1.220   4.003    322.     49.    120.   20.21 3978.35   50059
POINT STK07     278670 4928569     348    3.02   23.93  104.81   45.90  150.59   1.520   4.987    311.     38.    100.   27.42 5397.64  105427
POINT STK08     278664 4928572     348    0.00    0.00    0.00   31.20  102.36   0.350   1.148    289.     16.     60.    0.01    1.97       2
POINT STK09     278716 4928571     348    0.75    5.98   26.19   50.30  165.03   0.910   2.986    322.     49.    120.   12.94 2547.24   17833
POINT STK10     278695 4928567     348    1.13    8.98   39.33   45.70  149.93   1.220   4.003    322.     49.    120.   20.21 3978.35   50059
POINT STK11     278710 4928648     348    1.39   11.00   48.18   56.10  184.06   2.510   8.235    339.     66.    150.   10.07 1982.28  105578
POINT STK11A    278710 4928648     348    0.00    0.00    0.00   56.10  184.06   2.510   8.235    339.     66.    150.   10.07 1982.28  105578
POINT STK12     278713 4928573     348    0.14    1.11    4.86   45.72  150.00   0.610   2.001    561.    288.    550.    8.09 1592.52    5010
POINT STK13     278681 4928349     348    0.25    2.00    8.76   42.30  138.78   0.610   2.001    361.     88.    190.    6.33 1246.06    3920
POINT STK14     278679 4928357     348    0.25    2.00    8.76   42.30  138.78   0.610   2.001    367.     94.    201.    7.90 1555.12    4892
POINT STK15     278827 4928590     348    0.07    0.52    2.28   24.39   80.02   0.460   1.509    305.     32.     89.   13.80 2716.54    4859
POINT STK163H   278750 4928568     348   31.78  252.22 1104.67   61.00  200.13   1.680   5.512    450.    177.    350.   15.82 3114.17   74305
POINT STK1624H  278750 4928568     348   20.39  161.80  708.65   61.00  200.13   1.680   5.512    450.    177.    350.   15.82 3114.17   74305
POINT STK17     278745 4928612     348    0.00    0.00    0.00   18.30   60.04   0.170   0.558    283.     10.     50.    0.01    1.97       0
POINT STK18     278740 4928614     348    0.00    0.00    0.00   18.30   60.04   0.200   0.656    283.     10.     50.    0.01    1.97       1
POINT STK19     278724 4928598     348    0.04    0.30    1.31   45.72  150.00   1.520   4.987    446.    173.    343.   13.87 2730.31   53329
POINT STK20     278738 4928592     348    0.05    0.40    1.75   45.72  150.00   1.620   5.315    461.    188.    370.   17.48 3440.94   76343
POINT STK22     279171 4928575     348    7.53   59.80  261.91   30.00   98.43   0.380   1.247   1200.    927.   1700.   23.00 4527.56    5527
POINT STK22A    279171 4928575     348    0.00    0.00    0.00   30.00   98.43   0.380   1.247   1200.    927.   1700.   23.00 4527.56    5527
POINT STK22LT   279171 4928575     348    0.75    5.98   26.17   30.00   98.43   0.380   1.247   1200.    927.   1700.   23.00 4527.56    5527
POINT STK23     278660 4928590     348    0.00    0.00    0.00   42.40  139.11   1.220   4.003    294.     21.     69.   15.36 3023.62   38046
POINT STK24     278802 4928799     348    0.00    0.00    0.00   37.60  123.36   0.200   0.656    283.     10.     50.    0.01    1.97       1
POINT STK25     278702 4928471     348    0.00    0.00    0.00   35.10  115.16   0.150   0.492    283.     10.     50.    0.01    1.97       0
POINT STK26     278705 4928477     348    0.00    0.00    0.00   35.10  115.16   0.150   0.492    283.     10.     50.    0.01    1.97       0
POINT STK27     278710 4928489     348    0.00    0.00    0.00   35.10  115.16   0.150   0.492    283.     10.     50.    0.01    1.97       0
POINT STK28     278714 4928501     348    0.00    0.00    0.00   35.10  115.16   0.150   0.492    283.     10.     50.    0.01    1.97       0
POINT STK29     278866 4928681     348    0.00    0.00    0.00   24.70   81.04   0.300   0.984    310.     37.     99.    0.01    1.97       1
POINT STK30     278667 4928586     348    0.00    0.00    0.00   44.20  145.01   1.070   3.510    315.     42.    107.   19.85 3907.48   37820
POINT STK31     278718 4928512     348    0.00    0.00    0.00   35.10  115.16   0.150   0.492    283.     10.     50.    0.01    1.97       0
POINT STK32     278723 4928527     348    0.00    0.00    0.00   35.10  115.16   0.150   0.492    283.     10.     50.    0.01    1.97       0
POINT STK33     278875 4928696     348    0.06    0.49    2.14   21.00   68.90   0.610   2.001    305.     32.     90.   16.17 3183.07   10013
POINT STK34     278662 4928578     348    0.00    0.00    0.00   30.80  101.05   1.520   4.987    289.     16.     60.    0.36   70.87    1384
POINT STK35     279180 4928440     348    0.00    0.00    0.00   10.50   34.45   0.130   0.427    283.     10.     50.    0.01    1.97       0
POINT STK36     279148 4928499     348    0.00    0.00    0.00   14.90   48.88   0.180   0.591    283.     10.     50.    0.01    1.97       1
POINT STK37     279148 4928505     348    0.00    0.00    0.00   15.20   49.87   0.180   0.591    283.     10.     50.    0.01    1.97       1
POINT STK38     279143 4928540     348    0.00    0.01    0.05   15.20   49.87   0.200   0.656    505.    232.    450.    4.02  791.34     268
POINT STK39     278812 4929079     348    0.00    0.01    0.05    4.70   15.42   0.510   1.673    450.    177.    350.    2.13  419.29     922
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POINT STK41	278661	4928517	348	0.00	0.00	0.00	24.40	80.05	0.130	0.427	283.	10.	50.	20.04	3944.88	564
POINT STK43	278637	4928533	348	0.00	0.00	0.00	29.00	95.14	0.150	0.492	283.	10.	50.	36.22	7129.92	1356
TOTAL				69.49	551.50	2415.44										

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 *** ISCST3 - VERSION 02035 ***    *** ADM - Marshall Site WITH SEASONAL ROADS; BKGRND SOURCES              ***        03/06/06
                                   *** INCREMENT AND NAAQS RUN FOR PM10                                    ***        08:47:46
 C:\PROJECTS\ADMMAR06\MAR_06TH\pm86inc.out
 **This Run Includes:   109 Source(s);      3 Source Group(s); and    3123 Receptor(s)
     AREA SRCIDNT EASTINGNORTHING ELEV(M)   G/SEC  #/HOUR  T/YEAR  HGT(M) HGT(FT) XDIM(M) YDIM(M)
   VOLUME SRCIDNT EASTINGNORTHING ELEV(M)   G/SEC  #/HOUR  T/YEAR  HGT(M) HGT(FT)  SYI(M)  SZI(M)
 AREACIRC SRCIDNT EASTINGNORTHING ELEV(M)   G/SEC  #/HOUR  T/YEAR  HGT(M) HGT(FT) RADIUS  #VERTS.
 AREAPOLY SRCIDNT EASTINGNORTHING ELEV(M)   G/SEC  #/HOUR  T/YEAR  HGT(M) HGT(FT) #VERTS.  SZI(M)
    POINT SRCIDNT EASTINGNORTHING ELEV(M)   G/SEC  #/HOUR  T/YEAR  HGT(M) HGT(FT)  DIA(M) DIA(FT)  DEG(K)  DEG(C)  DEG(F) VS(M/S) VS(F/M)
ACFM
  ------- ------- ------- ------- ------- ------- ------- ------- ------- ------- ------- ------- ------- ------- ------- ------- ------
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POINT STK02     278807 4928804     348    0.46    3.62   15.85   61.30  201.12   1.140   3.740    283.     10.     50.   18.90 3720.47   40876
POINT STK03     278697 4928525     348    0.09    0.71    3.11   38.40  125.98   0.490   1.608    283.     10.     50.    0.01    1.97       4
POINT STK04     278801 4928779     348    0.06    0.46    2.02   36.60  120.08   0.460   1.509    283.     10.     50.   14.95 2942.91    5264
POINT STK05     278811 4928771     348    0.01    0.06    0.26   13.72   45.01   0.120   0.394    283.     10.     50.   25.01 4923.23     599
POINT STK06     278724 4928532     348    0.76    6.00   26.28   59.70  195.87   1.220   4.003    322.     49.    120.   20.21 3978.35   50059
POINT STK07     278670 4928569     348    1.00    7.94   34.77   45.90  150.59   1.520   4.987    311.     38.    100.   27.42 5397.64  105427
POINT STK08     278664 4928572     348    0.04    0.35    1.53   31.20  102.36   0.350   1.148    289.     16.     60.    0.01    1.97       2
POINT STK09     278716 4928571     348    0.31    2.50   10.95   50.30  165.03   0.910   2.986    322.     49.    120.   12.94 2547.24   17833
POINT STK10     278695 4928567     348    0.76    6.00   26.28   45.70  149.93   1.220   4.003    322.     49.    120.   20.21 3978.35   50059
POINT STK11     278710 4928648     348    2.20   17.50   76.65   56.10  184.06   2.510   8.235    339.     66.    150.   10.07 1982.28  105578
POINT STK12     278713 4928573     348    0.21    1.70    7.45   45.72  150.00   0.610   2.001    561.    288.    550.    8.09 1592.52    5010
POINT STK13     278681 4928349     348    0.09    0.70    3.07   42.30  138.78   0.610   2.001    361.     88.    190.    6.33 1246.06    3920
POINT STK14     278679 4928357     348    0.09    0.70    3.07   42.30  138.78   0.610   2.001    367.     94.    201.    7.90 1555.12    4892
POINT STK15     278827 4928590     348    0.00    0.00    0.00   24.39   80.02   0.460   1.509    305.     32.     89.   13.80 2716.54    4859
POINT STK16     278750 4928568     348    1.36   10.81   47.35   61.00  200.13   1.680   5.512    450.    177.    350.   15.82 3114.17   74305
POINT STK17     278745 4928612     348    0.00    0.03    0.13   18.30   60.04   0.170   0.558    283.     10.     50.    0.01    1.97       0
POINT STK18     278740 4928614     348    0.00    0.03    0.13   18.30   60.04   0.200   0.656    283.     10.     50.    0.01    1.97       1
POINT STK19     278724 4928598     348    0.21    1.70    7.45   45.72  150.00   1.520   4.987    446.    173.    343.   13.87 2730.31   53329
POINT STK20     278738 4928592     348    0.25    2.00    8.76   45.72  150.00   1.620   5.315    461.    188.    370.   17.48 3440.94   76343
POINT STK22     279171 4928575     348    0.00    0.00    0.00   30.00   98.43   0.380   1.247   1200.    927.   1700.   23.00 4527.56    5527
POINT STK23     278660 4928590     348    0.22    1.71    7.49   42.40  139.11   1.220   4.003    294.     21.     69.   15.36 3023.62   38046
POINT STK24     278802 4928799     348    0.02    0.18    0.79   37.60  123.36   0.200   0.656    283.     10.     50.    0.01    1.97       1
POINT STK25     278702 4928471     348    0.01    0.07    0.31   35.10  115.16   0.150   0.492    283.     10.     50.    0.01    1.97       0
POINT STK26     278705 4928477     348    0.01    0.07    0.31   35.10  115.16   0.150   0.492    283.     10.     50.    0.01    1.97       0
POINT STK27     278710 4928489     348    0.01    0.07    0.31   35.10  115.16   0.150   0.492    283.     10.     50.    0.01    1.97       0
POINT STK28     278714 4928501     348    0.01    0.07    0.31   35.10  115.16   0.150   0.492    283.     10.     50.    0.01    1.97       0
POINT STK29     278866 4928681     348    0.02    0.14    0.61   24.70   81.04   0.300   0.984    310.     37.     99.    0.01    1.97       1
POINT STK30     278667 4928586     348    0.45    3.57   15.64   44.20  145.01   1.070   3.510    315.     42.    107.   19.85 3907.48   37820
POINT STK31     278718 4928512     348    0.01    0.07    0.31   35.10  115.16   0.150   0.492    283.     10.     50.    0.01    1.97       0
POINT STK32     278723 4928527     348    0.01    0.07    0.31   35.10  115.16   0.150   0.492    283.     10.     50.    0.01    1.97       0
POINT STK33     278875 4928696     348    0.08    0.60    2.63   21.00   68.90   0.610   2.001    305.     32.     90.   16.17 3183.07   10013
POINT STK34     278662 4928578     348    0.03    0.21    0.92   30.80  101.05   1.520   4.987    289.     16.     60.    0.36   70.87    1384
POINT STK35     279180 4928440     348    0.01    0.08    0.35   10.50   34.45   0.130   0.427    283.     10.     50.    0.01    1.97       0
POINT STK36     279148 4928499     348    0.02    0.13    0.57   14.90   48.88   0.180   0.591    283.     10.     50.    0.01    1.97       1
POINT STK37     279148 4928505     348    0.02    0.13    0.57   15.20   49.87   0.180   0.591    283.     10.     50.    0.01    1.97       1
POINT STK38     279143 4928540     348    0.00    0.01    0.05   15.20   49.87   0.200   0.656    505.    232.    450.    4.02  791.34     268
POINT STK39     278812 4929079     348    0.00    0.01    0.05    4.70   15.42   0.510   1.673    450.    177.    350.    2.13  419.29     922
POINT STK41     278661 4928517     348    0.00    0.04    0.17   24.40   80.05   0.130   0.427    283.     10.     50.   20.04 3944.88     564
POINT STK43     278637 4928533     348    0.01    0.10    0.44   29.00   95.14   0.150   0.492    283.     10.     50.   36.22 7129.92    1356
    AREA AREA1     278733 4928663     348    0.16    1.24    5.44    3.00    9.84  100.00  100.00 (0.1565E-04 G/S/M2, 0.1000E+05 M2) **STAR**
    AREA AREA1A    278733 4928663     348    0.03    0.22    0.96    3.00    9.84  100.00  100.00 (0.2768E-05 G/S/M2, 0.1000E+05 M2) *HROFDY*
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 AREA AREA2     278684 4928682     348    0.04    0.35    1.52    3.00    9.84  116.00  247.00 (0.1522E-05 G/S/M2, 0.2865E+05 M2) *SEASHR*
 AREA AREA3     278808 4928683     348    0.07    0.52    2.29    3.00    9.84  108.00  204.00 (0.2991E-05 G/S/M2, 0.2203E+05 M2) *SEASHR*
 AREA AREA4     278507 4928171     348    0.02    0.13    0.59    3.00    9.84  130.00  300.00 (0.4359E-06 G/S/M2, 0.3900E+05 M2) *SEASHR*
 AREA AREA5     279036 4928427     348    0.00    0.00    0.01    3.00    9.84  177.00   56.00 (0.3027E-07 G/S/M2, 0.9912E+04 M2) *SEASHR*
 AREA AREA6     278776 4928940     348    0.02    0.15    0.66    3.00    9.84   43.00  430.00 (0.1028E-05 G/S/M2, 0.1849E+05 M2) *SEASHR*
TOTAL                                    9.17   72.76  318.67
SUMP=                                    8.84   70.14  307.20
SUMA=                                    0.33    2.62   11.47
WNDA=                                    0.16    1.24    5.44
```

Appendix II -- Insignificant Activities Required to be Listed, and Likely Applicable Requirements

Facility: Minnesota Corn Processors
Permit Number: 08300038-001

Note: Several activities which may ordinarily be listed here as insignificant activities are listed in Table A of the permit, with associated Title I conditions.

Minn. R. 7007.1300, subpart	Rule Description of the Activity, and the Actual Activity	Likely Applicable Requirement
3(A)	Fuel use: space heaters fueled by, kerosene, natural gas, or propane	
	• Fifteen (15) natural gas space heater vents	Minn. R. 7011.0510/0515
3(G)	Emissions from a laboratory, as defined in the subpart.	
	• Five (5) QA/QC Lab vents – minimal PM or VOC emissions	Minn. R. 7011.0710/0715
3(I)	Individual emissions units at a stationary source, each of which have a potential to emit the following pollutants in amounts less than: 1. 4,000 lbs/year of carbon monoxide; and 2. 2,000 lbs/year each of nitrogen oxide, sulfur dioxide, particulate matter, particulate matter less than ten microns, volatile organic compounds (including hazardous air pollutant-containing VOC), and ozone.	
	• Twenty-three (23) pressure relief valves – minimal emissions of SO_2, VOC or PM	Minn. R. 7011.0710/0715
	• Five (5) chemical room roof vents	Minn. R. 7011.0710/0715
	• Twenty (20) non-VOC storage tanks – minimal emissions of SO_2 or PM (acid mists)	Minn. R. 7011.0710/0715
	• Five (5) miscellaneous vents venting small quantities of SO_2	none

TECHNICAL SUPPORT DOCUMENT
For
AIR EMISSION PERMIT NO. 08300038-007

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

1. General Information

1.1. Applicant and Stationary Source Location:

Applicant/Address	Stationary Source/Address (SIC Code: **2046**)
Archer Daniels Midland PO Box 1470 Decatur, IL 62525	400 Erie Road West Marshall Lyon County
Contact: **Glen Geifer, Environmental Compliance Coordinator** Phone: **(507) 537-2688**	

1.2. Description of the Facility

Archer Daniels Midland (ADM) operates a wet corn mill and ethanol production facility in Marshall, Minnesota. The facility mills and processes corn to produce corn starch, gluten, germ, feed, and ethanol.

1.3 Description of the Activities Allowed by this Permit Action

This permit action incorporates several amendments into a single major amendment. This permit removes a daily ethanol production limit and replaces it with an annual ethanol production limit. Nitrogen Oxide (NO_x) performance testing requirements for SV 016 have been eliminated, and continuous emissions monitoring requirements have been added in their place. This permit amendment also establishes baseline Volatile Organic Compound (VOC) emissions for several emission units. This permit action also authorizes the routing of biogas, which is currently permitted through a flare (SV 022), to an existing gluten flash dryer (SV 011). Biogas may occasionally be flared through the Wastewater Treatment Plant Flare (SV 022). In addition, limits established by Notice of Compliance Letters dated 9/18/2003, 12/1/2003, 5/17/2005, and 9/13/2005 have been included in this permit amendment.

1.4. Facility Emissions:

	PM tpy	PM_{10} tpy	SO_2 tpy	NO_x tpy	CO tpy	VOC tpy
Total Facility Limited Potential Emissions	445.6	316.7	1003.9	540.3	1921.4	199.5

Table 1. Total Facility Potential to Emit Summary

Table 4. Facility Classification

Classification	Major/Affected Source	Synthetic Minor	Minor
PSD	X		
Part 70 Permit Program	X		
Part 63 NESHAP		X	

2. Regulatory and/or Statutory Basis

New Source Review

The facility is an existing major source under New Source Review – Prevention of Significant Deterioration (PSD, 40 CFR § 52.21). During the facility's existence, it has also taken limits to avoid major source classification of specific modifications under PSD.

Part 70 Permit Program

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

New Source Performance Standards (NSPS)

There are no NSPS's added with this permit action. NSPS's that currently apply to the facility include:

- 40 CFR § 60, Subpart Db -- Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units

  40 CFR § 60.40b (a) – The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 100 million Btu/hour. Boilers #3 and #4 are subject to this regulation.

- 40 CFR § 60, Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels)

  40 CFR § 60.110b (a) -- …the affected facility to which this subpart applies is each storage vessel with a capacity greater than or equal to 40 cubic meters that is used to store volatile organic liquids for which construction, reconstruction, or modification is commenced after July 23, 1984.

  Tanks 001-003, 005, 006, and 015 are subject (in varying degrees, depending on tank size and contents) to this regulation.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

The facility has accepted limits on HAP usage such that it is a non-major source under 40 CFR pt. 63. Thus, no NESHAPs apply.

Minnesota State Rules

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

- Minn. R. 7011.1000 through 7011.1015 - Bulk Agricultural Commodity Facilities
- Minn. R. 7011.0500 through 7011.0553 – New Indirect Heating Fossil-Fuel-Burning Equipment
- Minn. R. 7011.0600 through 7011.0625 – New Direct Heating Fossil-Fuel-Burning Equipment
- Minn. R. 7011.0700 through 7011.0735 – Post 1969 Industrial Process Equipment
- Minn. R. 7011.2300 – Stationary Internal Combustion Engines

Table 5. Regulatory Overview of Units Affected by the Modification/Permit Amendment

EU, GP, or SV	Applicable Regulations	Comments:
SV 009 Germ Dryers	Consent Decree Para. 39	VOC emissions quantified to satisfy the requirements of Paragraph of the Consent Decree.
SV 011 Gluten Dryer	Title I Condition: BACT	Sulfur Dioxide (SO_2) limit decreased from 15.0 lb/h to 11.0 lb/h and 90% SO_2 control efficiency limit to accommodate both natural gas and biogas combustion. CO limit reduced to 3.9 lb/h. Permitted fuel use modified to allow both biogas and natural gas combustion in the gluten dryer.
SV 013 Carbon Furnace No. 2	Consent Decree Para. 39	VOC emissions quantified to satisfy the requirements of the Consent Decree.

SV 014 Carbon Furnace No. 3	Consent Decree Para. 39	VOC emissions quantified to satisfy the requirements of Paragraph 39 of the Consent Decree.
SV 015 Ethanol Plant Scrubbers	Minn. R. 7017.2025 subp. 3	Replaced daily ethanol production limit with an annual production limit (based on the daily production limit x 365 days/year).
SV 022 Wastewater Treatment Plant Flare	Title I Condition: 40 CFR § 52.21 (k)	SO_2 limit increased from 0.29 lb/h to 60 lb/h. Originally, ADM believed that the biogas flare did not emit much SO_2. Performance testing has indicated that the SO_2 emissions from the biogas flare are about 60 lb/h. Biogas will be combusted in the gluten dryer on a regular basis, but ADM will occasionally flare the biogas. Hours of venting biogas to the flare limited to 700 hours per year.
SV 023 Rotary Cooler	Consent Decree Para. 39	VOC emissions quantified to satisfy the requirements of paragraph 30 of the Consent Decree.
SV 030 Rotary Cooler	Consent Decree Para. 39	VOC emissions quantified to satisfy the requirements of Paragraph 39 of the Consent Decree.
SV 033 Fiber Dewatering	Consent Decree Para. 39	VOC emissions quantified to satisfy the requirements of Paragraph 39 of the Consent Decree.
SV 044 MVR Feed Tank	Consent Decree Para. 39	VOC emissions quantified to satisfy the requirements of Paragraph 39 of the Consent Decree.

3. Technical Information

BACT Analysis

BACT limits for the gluten dryer (SV 011) and the wastewater treatment plant flare (SV 022) were reset with this permit action.

Calculations of Potential to Emit

Calculations of Potential to Emit can be found in Attachment 1 to this document. VOC PTE for the WWTP was found to be 4.32 tpy using Water9 modeling software.

3.2 Periodic Monitoring

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

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

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

Table 4 summarizes the periodic monitoring requirements for those emission units for which the monitoring required by the applicable requirement is nonexistent or inadequate.

Table 6. Periodic Monitoring

Emission Unit or Group	Requirement (basis)	Additional Monitoring	Discussion
SV 009 Germ Dryers	VOC ≤ 6.6 lb/h	VOC performance testing requirements.	Performance testing is required to determine compliance with the hourly VOC emissions limit.
SV 011 Gluten Dryer	SO_2 ≤ 11.0 lb/h CO ≤ 3.9 lb/h	Spray tower (CE 021) monitoring requirements	
SV 013 Carbon Furnace No. 2	VOC ≤ 7.6 lb/h	Afterburner temperature monitoring	Afterburner temperature is limited to determine compliance with the VOC emissions limit. VOC Performance Testing is also required.
SV 014 Carbon Furnace No. 3	VOC ≤ 7.6 lb/h	Afterburner temperature monitoring	Afterburner temperature is limited to determine compliance with the VOC emissions limit. VOC Performance Testing is also required.
SV 015 Ethanol Plant Scrubbers	Ethanol Production: ≤ 51,295,640 gallons per year	Calculate and record the total ethanol production for the previous 12-month period.	

SV 022 Wastewater Treatment Plant Flare	SO2 ≤ 60 lb/h	Calculate and Record hours of biogas vented to the flare	No periodic monitoring is necessary. The flare is a back-up device. The biogas will be combusted in the Gluten Dryer (SV 011) on a regular basis.
SV 023 Rotary Cooler	VOC ≤ 7.6 lb/h	none	Performance testing is required to determine compliance with the hourly VOC emissions limit. No periodic monitoring is necessary because this is an uncontrolled VOC source.
SV 030 Rotary Cooler	VOC ≤ 4.9 lb/h	none	Performance testing is required to determine compliance with the hourly VOC emissions limit. No periodic monitoring is necessary because this is an uncontrolled VOC source.
SV 033 Fiber Dewatering	VOC ≤ 7.2 lb/h	none	Performance testing is required to determine compliance with the hourly VOC emissions limit. No periodic monitoring is necessary because this is an uncontrolled VOC source.
SV 044	VOC ≤ 6.0 lb/h	none	This is a newly identified VOC source. The calculated PTE for the MVR Feed Tank is 4.05 lb/h. A 50% safety factor was added to this number. It is unlikely that this limit would be violated, so no periodic monitoring is necessary.

3.3 Insignificant Activities

ADM has several operations which are classified as insignificant activities. These are listed in Appendix II to the permit.

3.4 Comments Received

Public Notice Period: April 6, 2006 - May 5, 2006
EPA 45-day Review Period: April 6, 2006 – May 22, 2006

Comments were not received from the public during the public notice period. Thus, two-stage issuance was available under Minn. R. 7007.0750 to authorize the construction and modifications immediately after the end of the 30-day public notice.

4. Conclusion

Based on the information provided by ADM, the MPCA has reasonable assurance that the operation of the emission facility, as described in the Air Emission Permit No. 08300038-007, and this TSD, will not cause or contribute to a violation of applicable federal regulations and Minnesota Rules.

Staff Members on Permit Team: Elisabeth Freymiller (permit writer/engineer)
Sarah Kilgriff (enforcement)
Steve Gorg (stack testing)
Dave Beil (peer reviewer)

Attachments:
1. PTE Summary Calculation Spreadsheets
2. Facility Description and CD-01 Forms
3. BACT Analysis