DRAFT/PROPOSED

AIR EMISSION PERMIT NO. 09900002-011
Major Amendment
IS ISSUED TO

HORMEL FOODS CORPORATION
and Quality Pork Processors (co-operator)

HORMEL FOODS CORPORATION/QUALITY PORK PROCESSORS – AUSTIN
500 14th Avenue Northeast
Austin, Mower County, MN 55912

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

The conditions included in Stage 1 of this permit action are effective on the Stage 1 Issuance Date shown below. Stage 1 conditions authorize construction of the facility and the operation of EU088-091 emissions units at the address listed above until final action is taken on Stage 2. Air Emission Permit No. 09900002-010 remains effective until the Stage 2 Issue Date shown below.

Beginning on the Stage 2 Issue Date shown below, Air Emission Permit No. 09900002-011 supersedes Air Emission Permit No. 09900002-010 and 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.

Unless otherwise indicated, all the Minnesota rules cited as the origin of the permit terms are incorporated into the State Implementation Plan (SIP) under 40 CFR § 52.1220 and as such are enforceable by U.S. Environmental Protection Agency (EPA) Administrator or citizens under the Clean Air Act.

Permit Type: Federal; Pt 70/Limits to Avoid NSR
Operating Permit Issue Date: November 2, 2005
Stage 1 Issue Date - Authorization to Construct and Operate: <date1>
Stage 2 Issue Date - Major Amendment: <date2>
Operating Permit Expiration Date: November 2, 2010* – All Title I Conditions do not expire.
* The Permittee may continue to operate this facility after the expiration date of the permit, per the provision under Minn. R. 7007.0450, subp. 3. Title V Reissuance Application was received May 3, 2010.

Stage 1 Issuance:

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

for John Linc Stine
Commissioner
Minnesota Pollution Control Agency

Stage 2 Issuance:

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

for John Linc Stine
Commissioner
Minnesota Pollution Control Agency

Permit Applications Table

Permit Type	Application Date	Permit Action
Total Facility Operating Permit -Reissuance	2/6/04 & 8/22/05	008
Major Amendment	1/17/06	009
Major Amendment	3/3/11 & 6/17/11	010
Major Amendment	2/22/13	011

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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:

The Hormel Foods Corporation operates a meat processing plant in Austin, Minnesota. At the facility, Quality Pork Processors (QPP) processes hogs, and the Permittee manufacturers the hogs into ham, bacon, dry sausage, fresh sausage, SPAM ®, and other meat products. Byproducts consist of blood, cracklings, bone meal, and choice white grease (a component of a broader category of substances known as refined animal fats). QPP is a co-permittee however Hormel Foods owns all equipment and operates the majority of it; QPP only operates some of the emissions equipment (insignificant combustion sources) in the processing area.

There are many emission sources at the facility, however most of them qualify as insignificant activities under Minn. R. 7007.1300, subparts 3 and 4. Most of these insignificant activities are natural gas-fired combustion sources such as makeup air heaters, space heaters, and process ovens. Some of these insignificant activities are included in the following facility discussion.

Seven boilers combusting mainly natural gas provide process steam. In addition, twelve natural gas-fired process ovens produce meat products using natural or liquid smoke. Pre-cooked process lines produce pre-cooked bacon and bacon bits.

Rendering emissions are treated in a venturi scrubber and packed tower scrubbers before discharge to the atmosphere. Emissions from a bone meal dryer and a blood dryer are also treated by a venturi scrubber and packed tower scrubbers before discharge to the atmosphere.

ACTION 009

This amendment authorized construction and operation of seven identical 2000 kW diesel electric generators. The engines are Caterpillar model 3516 units and operate as peaking and emergency power units.

ACTION 010

This amendment authorized installation of a regenerative thermal oxidizer (RTO; CE 026), retirement of three packed tower scrubbers (CE 022, CE 023, and CE 024), and re-routing of emissions from rendering machinery, and bone and blood meal dryers. The RTO replaced existing packed tower scrubbers CE 022, CE 023, and CE 024 that control condensable particulate matter and VOC emissions from rendering machinery (EU 028), a blood dryer (EU 050) and a bone meal dryer (EU 036).

This action also added a 94,700 ton per year carbon dioxide equivalent (CO_2e) limit to maintain minor source status under New Source Review.

Finally, this action added GP 003 PM and opacity testing (due October 16, 2011 and thereafter at 60-month intervals unless/until revised by future test results) as specified in the August 9, 2007, the MPCA test frequency approval letter, clarified that the GP 012 used oil analysis frequency is 60 months, and updated the total facility requirement pertaining to operating limits established through performance testing. This action also updated the nitrogen oxdes (NO_X) emission factor and opacity testing requirements for GP 011 peaking generators based on a January 14, 2010 Notice of Compliance.

ACTION 011 AMENDMENT DESCRIPTION:

This permit action will authorize construction of new, re-designed rendering operations at the facility to replace existing rendering operations. The new operations will be referred to as Refined Products operations. The re-designed Refined Products operations will be housed in a new manufacturing building to be constructed on the same site as the existing facility. The addition will include rendering machinery, some new and some relocated from existing operations, as well as new meat and bone meal (MBM) and dried blood truck load-out system. Compliance Assurance Monitoring (CAM) Plans existing in the permit appendices were removed. Requirements referencing use of No. 6 Fuel Oil and used oil are being removed.

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Hormel Foods Corp/QPP - Austin

Permit Number: 09900002 - 011

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
TOTAL FACILITY CARBON DIOXIDE EQUIVALENT (CO2e) LIMIT	hdr
Carbon Dioxide Equivalent: less than or equal to 94700 tons/year using 12-month Rolling Sum for all CO2e emitting sources at the facility.	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 & Minn. R. 7007.3000
Carbon Dioxide Equivalent Emissions Monitoring: By the 15th day of each month the Permittee shall calculate and record the following: 1. the type and amount of each fuel combusted at the facility in the previous calendar month; 2. the total facility CO2e emissions from the previous calendar month using Equations 1 and 2 in Appendix 4 of this permit; 3. the total facility CO2e emissions during the previous 12 calendar months by summing the monthly total CO2e emissions from the past 12 months.	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 & Minn. R. 7007.3000
The Permittee is prohibited from emitting any greenhouse gases as defined at title 40 CFR Section 98.6 other than carbon dioxide (CO2), nitrous oxide (N2O), and methane (CH4).	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 & Minn. R. 7007.3000
OPERATIONAL REQUIREMENTS	hdr
Ambient Air Quality Standards: The Permittee shall comply with and upon written request demonstrate compliance with National Primary and Secondary Ambient Air Quality Standards in Title 40 CFR part 50, and the Minnesota Ambient Air Quality Standards at Minn. R. 7009.0010 to 7009.0080.	40 CFR part 50; Minn. Stat. Sec. 116.07, subds. 4a and 9; Minn. R. 7007.0100, subps. 7A, 7L and 7M; Minn. R. 7007.0800, subps. 1, 2, and 4; Minn. R. 7009.0010-7009.0080
Circumvention: Do not install or use a device or means that conceals or dilutes emissions, which would otherwise violate a federal or state air pollution control rule, without reducing the total amount of pollutant emitted.	Minn. R. 7011.0020
Air Pollution Control Equipment: Operate all pollution control equipment whenever the corresponding process equipment and emission units are operated, unless otherwise noted in Table A.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 16(J)
Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment. At a minimum, the O & M plan shall identify all air pollution control equipment and shall include a preventative maintenance program for that equipment, a description of (the minimum but not necessarily the only) corrective actions to be taken to restore the equipment to proper operation to meet applicable permit conditions, a description of the employee training program for proper operation and maintenance of the control equipment, and the records kept to demonstrate plan implementation.	Minn. R. 7007.0800, subps. 14 and 16(J)
Operation Changes: In any shutdown, breakdown, or deviation the Permittee shall immediately take all practical steps to modify operations to reduce the emission of any regulated air pollutant. The Commissioner may require feasible and practical modifications in the operation to reduce emissions of air pollutants. No emissions units that have an unreasonable shutdown or breakdown frequency of process or control equipment shall be permitted to operate.	Minn. R. 7019.1000, subp. 4
Fugitive Emissions: Do not cause or permit the handling, use, transporting, or storage of any material in a manner which may allow avoidable amounts of particulate matter to become airborne. Comply with all other requirements listed in Minn. R. 7011.0150.	Minn. R. 7011.0150
Noise: The Permittee shall comply with the noise standards set forth in Minn. R. 7030.0010 to 7030.0080 at all times during the operation of any emission units. This is a state only requirement and is not federally enforceable.	Minn. R. 7030.0010 - 7030.0080
Inspections: Upon presentation of credentials and other documents as may be required by law, allow the Agency, or its representative, to enter the Permittee's premises to have access to and copy any records required by this permit, to inspect at reasonable times (which include any time the source is operating) any facilities, equipment, practices or operations, and to sample or monitor any substances or parameters at any location.	Minn. R. 7007.0800, subp. 9(A)

Facility Name: Hormel Foods Corp/QPP - Austin

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The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
PERFORMANCE TESTING	hdr
Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in Tables A and/or B.	Minn. R. ch. 7017
Performance Test Notifications and Submittals: Performance Tests are due as outlined in Tables A and B of the permit. See Table B for additional testing requirements. Performance Test Notification (written): due 30 days before each Performance Test Performance Test Plan: due 30 days before each Performance Test Performance Test Pre-test Meeting: due 7 days before each Performance Test Performance Test Report: due 45 days after each Performance Test Performance Test Report - Microfiche Copy: due 105 days after each Performance Test The Notification, Test Plan, and Test Report may be submitted in alternative format as allowed by Minn. R. 7017.2018.	Minn. R. 7017.2030, subps. 1-4, Minn. R. 7017.2035, subps. 1-2, and Minn. R. 7017.2018
Limits set as a result of a performance test (conducted before or after permit issuance) apply until superseded as stated in the MPCA's Notice of Compliance letter granting preliminary approval. Preliminary approval is based on formal review of a subsequent performance test on the same unit as specified by Minn. R. 7017.2025, subp. 3. The limit is final upon issuance of a permit amendment incorporating the change.	Minn. R. 7017.2025, subp. 3
MONITORING REQUIREMENTS	hdr
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 and/or B, monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown, or during checks of the monitoring systems, such as calibration checks and zero and span adjustments. If monitoring records are required, they should reflect any such periods of process shutdown or checks of the monitoring system.	Minn. R. 7007.0800, subp. 4(D)
RECORDKEEPING	hdr
Recordkeeping: Retain all records at the stationary source for a period of five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A).	Minn. R. 7007.0800, subp. 5(C)
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)
If the Permittee determines that no permit amendment or notification is required prior to making a change, the Permittee must retain records of all calculations required under Minn. R. 7007.1200. These records shall be kept for a period of five years from the date the change was made or until permit reissuance, whichever is longer. The records shall be kept at the stationary source for the current calendar year of operation and may be kept at the stationary source or office of the stationary source for all other years. The records may be maintained in either electronic or paper format.	Minn. R. 7007.1200, subp. 4
REPORTING/SUBMITTALS	hdr
Shutdown Notifications: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. If the owner or operator does not have advance knowledge of the shutdown, notification shall be made to the Commissioner as soon as possible after the shutdown. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 3. At the time of notification, the owner or operator shall inform the Commissioner of the cause of the shutdown and the estimated duration. The owner or operator shall notify the Commissioner when the shutdown is over.	Minn. R. 7019.1000, subp. 3

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Breakdown Notifications: Notify the Commissioner within 24 hours of a breakdown of more than one hour duration of any control equipment or process equipment if the breakdown causes any increase in the emissions of any regulated air pollutant. The 24-hour time period starts when the breakdown was discovered or reasonably should have been discovered by the owner or operator. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 2. At the time of notification or as soon as possible thereafter, the owner or operator shall inform the Commissioner of the cause of the breakdown and the estimated duration. The owner or operator shall notify the Commissioner when the breakdown is over.	Minn. R. 7019.1000, subp. 2
Notification of Deviations Endangering Human Health or the Environment: As soon as possible after discovery, notify the Commissioner or the state duty officer, either orally or by facsimile, of any deviation from permit conditions which could endanger human health or the environment.	Minn. R. 7019.1000, subp. 1
Notification of Deviations Endangering Human Health or the Environment Report: Within 2 working days of discovery, notify the Commissioner in writing of any deviation from permit conditions which could endanger human health or the environment. Include the following information in this written description: 1. the cause of the deviation; 2. the exact dates of the period of the deviation, if the deviation has been corrected; 3. whether or not the deviation has been corrected; 4. the anticipated time by which the deviation is expected to be corrected, if not yet corrected; and 5. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation.	Minn. R. 7019.1000, subp. 1
Application for Permit Amendment: If a permit amendment is needed, submit an application in accordance with the requirements of Minn. R. 7007.1150 through Minn. R. 7007.1500. Submittal dates vary, depending on the type of amendment needed.	Minn. R. 7007.1150 - 7007.1500
Extension Requests: The Permittee may apply for an Administrative Amendment to extend a deadline in a permit by no more than 120 days, provided the proposed deadline extension meets the requirements of Minn. R. 7007.1400, subp. 1(H). Performance testing deadlines from the General Provisions of 40 CFR pt. 60 and pt. 63 are examples of deadlines for which the MPCA does not have authority to grant extensions and therefore do not meet the requirements of Minn. R. 7007.1400, subp. 1(H).	Minn. R. 7007.1400, subp. 1(H)
Emission Inventory Report: due on or before April 1 of each calendar year following permit issuance. Submit the report on a form or alternative media approved by the Commissioner.	Minn. R. 7019.3000 - 7019.3010
Emission Fees: due 60 days after receipt of an MPCA bill.	Minn. R. 7002.0005 - 7002.0095

Facility Name: Hormel Foods Corp/QPP - Austin

Permit Number: 09900002 - 011

Subject Item: **GP 001 SO2 and NOx Limits**

Associated Items: EU 001 Boiler #1
EU 002 Boiler #2
EU 003 Boiler #3
EU 004 Boiler #4
EU 005 Boiler #5
EU 044 Boiler #6
EU 045 Boiler #7
EU 051 Emergency RICE(s)
EU 080 Generator #1
EU 081 Generator #2
EU 082 Generator #3
EU 083 Generator #4
EU 084 Generator #5
EU 085 Generator #6
EU 086 Generator #7

What to do	Why to do it
GP 001 ASSOCIATED ITEMS GP 001 is composed of GP 011 and GP 012 emission units, and EU 051. GP 011 is composed of EU 080 through EU 086. GP 012 is composed of EU 001 - EU 005, EU 044, and EU 045.	hdr
EMISSION LIMITS	hdr
Nitrogen Oxides: less than or equal to 180 tons/year using 12-month Rolling Sum total for GP 001.	Title I Condition: To limit potential NOx emissions to less than major source levels defined by 40 CFR Section 52.21; Minn. R. 7007.3000
Sulfur Dioxide: less than or equal to 235 tons/year using 12-month Rolling Sum total for GP 001 combustion of diesel fuel, and refined animal fats. This does not include any SO2 emissions from distillate oil or diesel fuel combustion in EU 051.	Title I Condition: To limit potential SO2 emissions to less than major source levels defined by 40 CFR Section 52.21; Minn. R. 7007.3000
RECORDKEEPING	hdr
Sulfur Dioxide Emissions Monitoring and Recordkeeping: By the 15th day of each month the Permittee shall: 1) Calculate and record GP 001 SO2 emissions during the previous calendar month using the following equation: SO2 = GP 011 + GP 012 where: SO2 = GP 001 calendar month SO2 emissions, in tons GP 011 = GP 011 calendar month SO2 emissions, in tons, determined under GP 011 GP 012 = GP 012 calendar month SO2 emissions, in tons, determined under GP 012 (continued)	Minn. R. 7007.0800, subp. 4 and 5
(continued from above) 2) Calculate and record the 12-month rolling sum GP 001 SO2 emissions by summing the monthly GP 001 SO2 emissions determined with the above equation, for the previous 12 months.	Minn. R. 7007.0800, subp. 4 and 5

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Nitrogen Oxides Emissions Monitoring and Recordkeeping: By the 15th day of each month the Permittee shall: 1) Calculate and record GP 001 NOx emissions during the previous calendar month using the following equation: NOx = GP 011 + GP 012 + (EU 051/2000) where: NOx = GP 001 calendar month NOx emissions, in tons GP 011 = GP 011 calendar month NOx emissions, in tons, determined under GP 011 GP 012 = GP 012 calendar month NOx emissions, in tons, determined under GP 012 EU 051 = EU 051 calendar month NOx emissions, in pounds, determined under EU 051 (continued)	Minn. R. 7007.0800, subp. 4 and 5
(continued from above) 2) Calculate and record the 12-month rolling sum GP 001 NOx emissions by summing the monthly GP 001 NOx emissions determined with the above equation, for the previous 12 months.	Minn. R. 7007.0800, subp. 4 and 5

Facility Name: Hormel Foods Corp/QPP - Austin

Permit Number: 09900002 - 011

Subject Item: **GP 003 Natural Smoke Process**

Associated Items: EU 006 Smoked Meat Oven #6 with recirculated natural wood smoke

EU 007 Smoked Meat Oven #7 with recirculated natural wood smoke

EU 008 Smoked Meat Oven #8 with recirculated natural wood smoke

EU 009 Smoked Meat Oven #9 with recirculated natural wood smoke

EU 010 Smoked Meat Oven #10 with recirculated natural wood smoke

EU 011 Smoked Meat Oven #11 with recirculated natural wood smoke

EU 031 Natural Smoke Generator

EU 032 Natural Smoke Generator

SV 003 Natural Smoke Meat Oven (EU 006)

SV 005 Natural Smoke Meat Oven (EU 007)

SV 007 Natural Smoke Meat Oven (EU 008)

SV 009 Natural Smoke Meat Oven (EU 009)

SV 011 Natural Smoke Meat Oven (EU 010)

SV 012 Natural Smoke Meat Oven (EU 011)

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than 0.30 grains/dry standard cubic foot unless required to reduce emissions to meet the less stringent limit of either 7011.0730 or 7011.0735 (table 1 and 2, respectively). This limit applies individually to each stack/vent.	Minn. R. 7011.0715, subp. 1(A)
Opacity: less than or equal to 20 percent . This limit applies individually to each stack/vent.	Minn. R. 7011.0715, subp. 1(B)
PERFORMANCE TEST REQUIREMENTS	hdr
Performance Test: due before end of each calendar 60 months starting 10/07/2011 to measure PM and opacity from one of the GP 003 emission units while using natural smoke from EU 031 or EU 032. The next PM and opacity tests are due 10/7/2016.	Minn. R. 7017.2020, subp. 1

Facility Name: Hormel Foods Corp/QPP - Austin

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Subject Item: **GP 005 Precook Processes**

Associated Items: CE 006 Mist Eliminator - High Velocity, i.e., V>250 Ft/Min

CE 007 Mist Eliminator - High Velocity, i.e., V>250 Ft/Min

CE 025 Mist Eliminator - High Velocity, i.e., V>250 Ft/Min

EU 018 Precooked Bacon, South

EU 019 Precooked Bacon, North

EU 020 Precooked Bacon, East

EU 021 Precooked Bacon, West

EU 029 Bacon Bits Precooked Line

SV 019 Precooked Bacon Stack N/S (EU 018 & EU 019/CE 006)

SV 020 Precooked Bakon Stack E/W (EU 020 & EU 021/CE 007)

SV 050 Bacon Bits Line (EU 029/CE 025)

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than 0.30 grains/dry standard cubic foot unless required to reduce emissions to meet the less stringent limit of either 7011.0730 or 7011.0735 (table 1 and 2, respectively). This limit applies individually to each stack/vent.	Minn. R. 7011.0715, subp. 1(A)
Opacity: less than or equal to 20 percent opacity . This limit applies individually to each stack/vent.	Minn. R. 7011.0715, subp. 1(B)
OPERATING REQUIREMENTS	hdr
Vent all emissions from GP 005 precooked process equipment through the corresponding mist eliminator (CE 006, CE 007, or CE 025).	Minn. R. 7007.0800, subp. 2
CONTROL EQUIPMENT REQUIREMENTS	hdr
The Permittee shall operate and maintain each mist eliminator 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
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop and water flow rate for each mist eliminator, as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the mist eliminator is controlling emissions.	Minn. R. 7007.0800, subp. 4
CE 006 and CE 007 Pressure Differential: Not less than 0 inches wc and not more than 2 inches wc for each mist eliminator when controlling precooked process emissions.	Minn. R. 7007.0800, subp. 14
CE 006 and CE 007 Minimum Water Flow Rate: Not less than 1 gallon per minute, for each mist eliminator when controlling precooked process emissions.	Minn. R. 7007.0800, subp. 14
CE 025 Pressure Differential: Less than 2 inches wc when controlling process emissions.	Minn. R. 7007.0800, subp. 14
CE 025 Minimum Water Flow Rate when controlling process emissions: Filter: not less than 2 gallon per minute; Upper Intake: not less than 1 gallon per minute Lower Intake: not less than 1 gallon per minute	Minn. R. 7007.0800, subp. 14
Daily Monitoring: Once each day of operation, the Permittee shall monitor and record the pressure differential and water flow rate for each mist eliminator that is controlling any GP 005 precooked process emissions.	Minn. R. 7007.0800, subp. 4 and 5
Periodic Inspections: Once per calendar quarter, or at a frequency prescribed by the manufacturer, the Permittee shall inspect the components of each mist eliminator. The Permittee shall maintain a written record of the results of each inspection.	Minn. R. 7007.0800, subp. 4, 5, and 14

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Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - the pressure drop across any mist eliminator is outside the required operating range; - the water flow rate for any mist eliminator is less than the required minimum; or - any mist eliminator or any of its components are found during any inspection to need repair. Corrective actions shall return the pressure drop to within the permitted range, restore the water flow rate to at least the required 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 mist eliminator. The Permittee shall keep a record of the type and date of any corrective action taken for any of the mist eliminators.	Minn. R. 7007.0800, subp. 4, 5, and 14
The Permittee shall calibrate or replace the CE 006, CE 007, and CE 025 pressure differential and flow rate monitors at least annually and shall maintain a written record of any action resulting from the calibration or replacement.	Minn. R. 7007.0800, subps. 4, 5, and 14

Facility Name: Hormel Foods Corp/QPP - Austin

Permit Number: 09900002 - 011

Subject Item: **GP 010 Blood and Bone Meal Dryers**

Associated Items: CE 018 Venturi Scrubber

CE 019 Packed-Gas Adsorption Column

CE 024 Packed-Gas Adsorption Column

CE 026 Thermal Oxidizer

EU 036 Existing Scott Bone Dryer

EU 050 New Duske Blood Dryer

EU 071 Room Air - Blood & Bone Drying

SV 033 Blood & Bone Dryers CE 018/CE 024 (venturi & packed tower E; bypasses packed tower F) (EU 036/EU 050)

SV 045 Blood & Bone Dryers CE 019 (packed tower F) (EU 036/EU 050)

SV 058 Regenerative Thermal Oxidizer (CE 026)

What to do	Why to do it
Subject Item GP 010 contains requirements applicable either: 1. prior to the startup of CE 026; 2. after the startup of CE 026; or, 3. both prior and after the startup of CE 026. Requirements under any header that states 'APPLY ONLY BEFORE CE 026 STARTUP' are no longer effective upon CE 026 startup. Prior to CE 026 startup, EU 036 and EU 050 emissions will vent to CE 018 (venturi scrubber) and then through CE 024 (Tower E) and then either to CE 019 (Tower F), and vent to the atmosphere through SV 045, or bypass CE 019 and vent emissions to the atmosphere from CE 024 through SV 033. After CE 026 startup, EU 036 and EU 050 emissions will be vented to CE 018 and then to CE 026 and then to the atmosphere through SV 058, and CE 024 will be shutdown.	hdr
EMISSION LIMITS - APPLY BEFORE AND AFTER CE 026 STARTUP Refer to SV 058 for additional applicable limits and requirements that apply after CE 026 startup	hdr
Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. After CE 026 startup, this limit applies at the outlet of CE 018 and does not apply to SV 058.	Minn. R. 7011.0610, subp. 1(A)(1)
Opacity: less than or equal to 20 percent except for one six-minute period per hour of not more than 60 percent opacity. After CE 026 startup, this limit applies at the outlet of CE 018 and does not apply to SV 058.	Minn. R. 7011.0610, subp. 1(A)(2)
OPERATING REQUIREMENTS - APPLY AFTER CE 026 STARTUP	hdr
Vent emissions from both the blood and bone dryers through CE 018 (venturi scrubber) and CE 026 (RTO) and then through SV 058. After CE 026 startup, the Permittee shall not route GP 010 emissions through CE 019 and CE 024.	Title I Condition: To avoid major source status under 40 CFR Section 52.21 and Minn. R. 7007.3000
CE 018 CONTROL EQUIPMENT REQUIREMENTS - APPLY AFTER CE 026 STARTUP	hdr
The Permittee shall operate and maintain CE 018 to achieve a control efficiency for Total Particulate Matter: greater than or equal to 94 percent control efficiency	Title I Condition: To avoid major source status under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain CE 018 to achieve a control efficiency for PM < 10 micron: greater than or equal to 84 percent control efficiency	Title I Condition: To avoid major source status under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain CE 018 venturi scrubber at all times that any emission unit controlled by CE 018 is in operation. The Permittee shall document periods of non-operation of CE 018.	Title I Condition: To avoid major source status under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain CE 018 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

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Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop and water flow rate for CE 018, as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when CE 018 is in operation.	Minn. R. 7007.0800, subp. 4
CE 018 Pressure Differential: greater than or equal to 5.0 inches w.c.	Title I Condition: To avoid major source status under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 & 14
CE 018 Water Flow Rate: greater than or equal to 10 gallons per minute.	Title I Condition: To avoid major source status under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 & 14
CE 018 Daily Monitoring and Recordkeeping: Once each day of EU 036 and/or EU 050 operation, the Permittee shall monitor and record the pressure differential and the water flow rate for CE 018.	Title I Condition: To avoid major source status under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 & 5
Periodic Inspections: Once per calendar quarter, or at a frequency prescribed by the manufacturer, the Permittee shall inspect the components of CE 018. The Permittee shall maintain a written record of the results of each inspection.	Minn. R. 7007.0800, subps. 4, 5, and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - the CE 018 pressure drop is below the permitted minimum; - the CE 018 water flow rate is below the permitted minimum; or - CE 018 or any of its components are found during any inspection to need repair. Corrective actions shall return the CE 018 pressure drop to at or above the minimum, the CE 018 water flow rate to at or above 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 CE 018 O & M Plan. The Permittee shall keep a record of the type and date of any corrective action taken.	Minn. R. 7007.0800, subps. 4, 5, and 14
The Permittee shall calibrate or replace the CE 018 pressure differential and flow rate monitors at least annually and shall maintain a written record of any action resulting from the calibration or replacement.	Minn. R. 7007.0800, subps. 4, 5, and 14
OPERATING REQUIREMENTS - APPLY ONLY BEFORE CE 026 STARTUP	hdr
Vent emissions from both the blood and bone dryers through CE 018 (venturi scrubber) and then through CE 024 (Tower E). After CE 024 the Permittee has the option of routing emissions to CE 019 (Tower F), and then through SV 045, or bypass CE 019 and vent emissions from CE 024 through SV 033.	Minn. R. 7007.0800, subp. 2
CE 018 (VENTURI SCRUBBER), CE 019 (TOWER F) AND CE 024 (TOWER E) CONTROL EQUIPMENT REQUIREMENTS - APPLY ONLY BEFORE CE 026 STARTUP	hdr
The Permittee shall operate and maintain CE 019 and CE 024 so that each achieves a control efficiency for Total Particulate Matter: greater than or equal to 85 percent control efficiency	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 019 and CE 024 so that each achieves a control efficiency for PM < 10 micron: greater than or equal to 85 percent control efficiency	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 018 so that the scrubber achieves a total control efficiency for Total Particulate Matter: greater than or equal to 94 percent control efficiency	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 018 so that the scrubber achieves a total control efficiency for PM < 10 micron: greater than or equal to 84 percent control efficiency	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 018, CE 019, and CE 024 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
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop and water flow rate for CE 018, CE 019, and CE 024, as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when CE 018, CE 019, and CE 024 are in operation.	Minn. R. 7007.0800, subp. 4

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CE 018 Pressure Differential: greater than or equal to 5 inches wc. CE 019 Pressure Differential: less than 7 inches wc. CE 024 Pressure Differential: less than 5 inches wc.	Minn. R. 7007.0800, subp. 14
CE 018 Water Flow Rate: not less than 10 gallons per minute CE 019 Water Flow Rate: not less than 150 gallons per minute CE 024 Water Flow Rate: not less than 50 gallons per minute	Minn. R. 7007.0800, subp. 14
CE 018, CE 019, and CE 024 Daily Monitoring: Once each day of operation, the Permittee shall monitor and record the pressure differential and the water flow rate for CE 018, CE 019, and CE 024.	Minn. R. 7007.0800, subp. 4 and 5
The Permittee shall calibrate or replace the CE 018, CE 019, and CE 024 pressure differential and flow rate monitors at least annually and shall maintain a written record of any action resulting from the calibration or replacement.	Minn. R. 7007.0800, subps. 4, 5, and 14
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturer, the Permittee shall inspect the components of CE 018, CE 019, and CE 024. The Permittee shall maintain a written record of the results of each inspection.	Minn. R. 7007.0800, subp. 4, 5, and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - the pressure drop of CE 018, CE 019, or CE 024 is below the required minimum; - the water flow rate of CE 018, CE 019, or CE 024 is below the permitted minimum; or - CE 018, CE 019, or CE 024 or any of their components are found during any inspection to need repair. Corrective actions shall return the pressure drop to within the permitted range, return the water flow rate 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 CE 018, CE 019, or CE 024. 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

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Subject Item: **GP 011 Electric Power Generators**

Associated Items: EU 080 Generator #1
EU 081 Generator #2
EU 082 Generator #3
EU 083 Generator #4
EU 084 Generator #5
EU 085 Generator #6
EU 086 Generator #7

What to do	Why to do it
LIMITS AND OPERATIONAL REQUIREMENTS	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
Permitted fuel: diesel fuel only.	Minn. R. 7007.0800, subp. 2
Diesel fuel sulfur content: less than or equal to 0.05 percent by weight.	Minn. R. 7007.0800, subp. 2
Total GP 011 Operating Hours: less than or equal to 65 hours/day	Minn. R. 7007.0800, subp. 2
MONITORING AND RECORDKEEPING	hdr
Diesel Fuel Supplier Certification: For each diesel fuel delivery, obtain a supplier certification either stating the actual sulfur content in percent by weight or certifying that the sulfur content does not exceed 0.05 percent by weight.	Minn. R. 7007.0800, subp. 4 and 5
Recordkeeping - GP 011 Operating Hours: Once each day the Permittee shall calculate and record the total GP 011 operating hours for the previous calendar day. By the 15th day of each month, calculate and record the total GP 011 operating hours for the previous calendar month.	Title I Condition: To limit potential NOx emissions to less than the major source levels defined in 40 CFR Section 52.21; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 and 5
Recordkeeping - Fuel Usage: Once each day the Permittee shall calculate and record the GP 011 diesel fuel usage (gallons) for the previous calendar day. By the 15th day of each month, calculate and record the total GP 011 diesel fuel usage (gallons) for the previous calendar month.	Title I Condition: To limit potential SO2 emissions to less than the major source levels defined in 40 CFR Section 52.21; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 and 5
Sulfur Dioxide Emissions Monitoring: by the 15th day of each month, calculate and record GP 011 SO2 emissions for the previous calendar month using the following equation: GP 011 SO2 = (Dg * 6.92E-03)/2000 where: GP 011 SO2 = GP 011 SO2 emissions, in tons Dg = diesel fuel combusted by GP 011 units during the previous month, in gallons 6.92E-03 = conversion factor derived from fuel heat content (0.137 mmBtu/gallon) and sulfur content limit (0.05% by weight equivalent to 0.0505 lb/mmBtu)	Minn. R. 7007.0800, subp. 4 and 5
Nitrogen Oxides Emissions Monitoring: by the 15th day of each month, calculate and record GP 011 NOx emissions for the previous calendar month using the following equation: GP 011 NOx = (OH * EF)/2000 where: GP 011 NOx = GP 011 NOx emissions, in tons OH = GP 011 units total operating hours during the previous month EF = NOx lb/hr emission factor; upon issuance of this permit the Permittee shall use the manufacturer's 48.92 lb/hr NOx emission factor This NOx lb/hr emission factor will be revised upon written MPCA approval of the latest NOx emission factor performance test results. An EF determined for one unit applies to all seven units for determining the GP 011 12-month rolling sum NOx emissions.	Minn. R. 7007.0800, subp. 4 and 5
PERFORMANCE TESTING	hdr

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Performance Test: due before end of each 36 months starting 10/26/2012 to determine the lb/hr NOx emission factor from one generator in GP 011 that has not been previously tested for NOx. If all GP 011 generators have been tested for NOx, test the generator with the least current NOx emission factor test.	Title I Condition: To limit potential NOx emissions to less than the major source levels defined in 40 CFR Section 52.21; Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Performance Test: due before end of each 60 months starting 10/26/2012 to measure opacity from one GP 011 generator that has not been previously tested for opacity. If all GP 011 generators have been tested for opacity, test the generator with the least current opacity test.	Minn. R. 7017.2020, subp. 1

Facility Name: Hormel Foods Corp/QPP - Austin

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Subject Item: **GP 012 Boilers**

Associated Items: EU 001 Boiler #1
EU 002 Boiler #2
EU 003 Boiler #3
EU 004 Boiler #4
EU 005 Boiler #5
EU 044 Boiler #6
EU 045 Boiler #7

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.4 lbs/million Btu heat input (applies individually to EU 001 through EU 005).	Minn. R. 7011.0515, subp. 1
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity (applies individually to EU 001 through EU 005).	Minn. R. 7011.0515, subp. 2
OPERATING LIMITS	hdr
Permitted Fuels: EU 001, EU 002, EU 003, and EU 004: Limited to natural gas, and refined animal fats (RAF) EU 005: natural gas only EU 044, and EU 045: natural gas and RAF	Minn. R. 7007.0800, subp. 2
RECORDKEEPING	hdr
Seperately record and maintain records of the quantity of natural gas combusted by EU 044 and the quantity of natural gas combusted by EU 045, on a monthly basis.	40 CFR Section 60.48c(g)
Recordkeeping - Fuel Usage: Once each day calculate and record the GP 012 usage of natural gas (cubic feet), and RAF usage in EU 001, EU 002, EU 003, and EU 004 (gallons), and the RAF usage in EU 044 and EU 045 (gallons), during the previous calendar day. By the 15th day of each month, calculate and record the GP 012 usage of natural gas (cubic feet), and RAF usage in EU 001, EU 002, EU 003, and EU 004 (gallons), and the RAF usage in EU 044 and EU 045 (gallons), during the previous calendar month.	Title I Condition: To limit potential SO2 and NOx emissions to less than major source levels defined by 40 CFR Section 52.21; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 and 5
Sulfur Dioxide Emissions Monitoring: By the 15th day of each month the Permittee shall calculate and record the tons of SO2 emitted during the previous calendar month from the GP 012 combustion of RAF, using the following equation: SO2 = (0.157CZ)/2000 where: SO2 = GP 012 sulfur dioxide emissions during the previous month (tons) C = GP 012 gallons of refined animal fat burned during the previous month Z = weight percent of sulfur in RAF burned the previous month	Minn. R. 7007.0800, subp. 4 and 5
Nitrogen Oxides Emissions Monitoring: By the 15th day of each month the Permittee shall calculate and record the tons of NOx emitted from GP 012 during the previous calendar month using the following equation: NOx = (X1B1 + X2B2 + 0.0001C)/2000 where: NOx = GP 012 nitrogen oxides emissions during the previous month (tons) B1 = GP 012 gallons of RAF burned during the previous month in EU 001 - 004 B2 = GP 012 gallons of RAF burned during the previous month in EU 044 & 045 X1 = NOx emission factor in lb of NOx/gallon of RAF from most recent test while combusting RAF in EU 001 - 004 X2 = NOx emission factor in lb of NOx/gallon of RAF from most recent test while combusting RAF in EU 044 & 045 (if RAF NOx emission testing data is not available, X1 and/or X2 shall be 0.0366 lb/gal) C = GP 012 cubic feet of natural gas combusted during the previous month	Minn. R. 7007.0800, subp. 4 and 5

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PERFORMANCE TESTING AND ANALYSIS	hdr
RAF Sulfur Content: Perform an analysis during each 12-month period following permit issuance to determine weight percent sulfur content in RAF using EPA Method 6A. The first analysis shall be performed within 180 days of permit issuance.	Title I Condition: To limit potential SO2 emissions to less than major source levels defined by 40 CFR Section 52.21; Minn. R. 7007.3000
Performance Test: due before end of each calendar 60 months starting 09/15/2002 to measure NOx emissions while combusting only RAF in either EU 001, EU 002, EU 003, or EU 004. Testing is required only if a total of more than 500,000 gallons of RAF has been combusted in EU 001 through EU 004 during the 60-month period starting 09/15/2002.	Title I Condition: To limit potential NOx emissions to less than major source levels defined by 40 CFR Section 52.21; Minn. R. 7007.3000
Performance Test: due 180 days after Initial Startup of RAF combustion in EU 044 and/or EU 045, to measure NOx emissions. Testing shall be conducted when combusting only RAF, and on either EU 044 or EU 045.	Title I Condition: To limit potential NOx emissions to less than major source levels defined by 40 CFR Section 52.21; Minn. R. 7007.3000

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Subject Item: **GP 014 Refined Products Makeup Air Units**

Associated Items: EU 092 Refined Products MAU 1

EU 093 Refined Products MAU 2

EU 094 Refined Products MAU 3

SV 062 Refined Products MAU 1 Stack

SV 063 Refined Products MAU 2 Stack

SV 064 Refined Products MAU 3 Stack

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.4 lbs/million Btu heat input . The natural gas fuel restriction for these units constitutes compliance with this limit.	Minn. R. 7011.0515, subp. 1
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0515, subp. 2
Fuel Restriction: Units in this group are permitted to fire natural gas only.	Minn. R. 7007.0800, subp. 2

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Subject Item: **SV 058 Regenerative Thermal Oxidizer (CE 026)**

Associated Items: EU 028 Rendering Machinery

EU 036 Existing Scott Bone Dryer

EU 050 New Duske Blood Dryer

EU 087 Regenerative Thermal Oxidizer (CE 026)

EU 088 Refined Products Machinery

GP 010 Blood and Bone Meal Dryers

MR 001 CE 026/EU 087 Combustion Chamber Temperature

What to do	Why to do it
EMISSION LIMITS (The following limits apply prior to startup of EU 088)	hdr
Total Particulate Matter: less than or equal to 6.37 lbs/hour for SV 058.	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; meets requirements of Minn. R. 7011.0610, subp. 1(A)(1) and Minn. R. 7011.0715, subp. 1.A
PM < 10 micron: less than or equal to 6.37 lbs/hour for SV 058.	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
PM < 2.5 micron: less than or equal to 6.37 lbs/hour from SV 058.	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
Volatile Organic Compounds: less than or equal to 6.37 lbs/hour for SV 058.	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity for SV 058.	Minn. R. 7011.0715, subp. 1.B; meets requirements of Minn. R. 7011.0610, subp. 1(A)(2)
EMISSION LIMITS (The following limits apply after startup of EU 088)	hdr
Total Particulate Matter: less than or equal to 1.22 lbs/hour for SV 058.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; meets requirements of Minn. R. 7011.0610, subp. 1(A)(1) and Minn. R. 7011.0715, subp. 1.A
PM < 10 micron: less than or equal to 1.15 lbs/hour for SV 058.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
PM < 2.5 micron: less than or equal to 1.41 lbs/hour from SV 058.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
Volatile Organic Compounds: less than or equal to 0.99 lbs/hour for SV 058.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity for SV058.	Minn. R. 7011.0715, subp. 1.B; meets requirements of Minn. R. 7011.0610, subp. 1(A)(2)
OPERATING REQUIREMENTS	hdr
Vent all CE 009 (EU 028) and CE 018 (EU 036 and EU 050) emissions through CE 026. Venting of CE 009 (EU 028) emissions through CE 026 applies until startup of EU 088.	Title I Condition: To avoid major source status under 40 CFR Section 52.21 and Minn. R. 7007.3000
CE 026 CONTROL EQUIPMENT REQUIREMENTS	hdr
The Permittee shall operate and maintain CE 026 to achieve a total control efficiency for Total Particulate Matter: greater than or equal to 62 percent control efficiency	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain CE 026 to achieve a total control efficiency for PM < 10 micron: greater than or equal to 62 percent control efficiency	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain CE 026 to achieve a total control efficiency for PM < 2.5 micron: greater than or equal to 62 percent control efficiency	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000

The Permittee shall operate and maintain CE 026 to achieve a total control efficiency for Volatile Organic Compounds: greater than or equal to 97 percent control efficiency	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain CE 026 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
CE 026 Combustion Chamber Temperature: greater than or equal to 1350 F on a 3-hour rolling average, unless a new minimum is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new minimum shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The minimum is final upon issuance of a permit amendment incorporating the change.	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
MONITORING AND RECORDKEEPING	hdr
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring CE 026 combustion chamber temperature, as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when CE 026 is in operation.	40 CFR Section 64.7(b); Minn. R. 7017.0200
CE 026 Temperature Monitoring and Recordkeeping: The Permittee shall operate and maintain a continuous CE 026 combustion chamber temperature monitor and continuously record the combustion chamber temperature. The temperature 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 (4.5 degrees Fahrenheit). The Permittee shall maintain a hard copy readout or computer disk file of the temperature readings for the RTO combustion chamber including the calculated 3-hour rolling average temperature values. The Permittee shall verify once each shift, not to exceed 12 hours, if all observed 3-hour rolling average temperature readings were at or above the minimum specified in this permit. Recorded values below the minimum specified in this permit are considered deviations as defined by Minn. R. 7007.0100, subp. 8a.	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 & 5; 40 CFR Section 64.3; Minn. R. 7017.0200
Periodic Inspections: Once per calendar quarter, or at a frequency prescribed by the manufacturer, the Permittee shall inspect the components of CE 026. The CE 026 burner may be inspected annually. The Permittee shall maintain a written record of the results of each inspection.	40 CFR Section 64.3; Minn. R. 7017.0200
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - the 3-hour rolling average combustion chamber temperature is below the required minimum; - the RTO or any of its components are found during any inspection to need repair. Corrective actions shall return the combustion chamber temperature to at or above the required 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 CE 026. The Permittee shall keep a record of the type and date of any corrective action taken.	40 CFR Section 64.7(d); Minn. R. 7017.0200
The Permittee shall calibrate or replace the CE 026 temperature gauge at least once every 12 months and shall maintain a written record of any action resulting from the calibration or replacement.	40 CFR Section 64.3; Minn. R. 7017.0200
Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing required minimum CE 026 combustion chamber temperature, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change.	40 CFR Section 64.7(e); Minn. R. 7017.0200

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As required by 40 CFR Section 64.9(a)(2), for the Semi-Annual Deviations Report listed in Table B of this permit and/or the Notification of Deviations Endangering Human Health and the Environment listed earlier in Table A of this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents.	40 CFR Section 64.9(a)(2); Minn. R. 7017.0200
The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained for five (5) years. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.	40 CFR Section 64.9(b); Minn. R. 7017.0200
PERFORMANCE TESTING	hdr
Initial Performance Test: due 180 days after Initial Startup of CE 026/EU 087 (regenerative thermal oxidizer) to measure PM2.5 emissions.	Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup of CE 026/EU 087 (regenerative thermal oxidizer) to measure PM emissions (including condensables).	Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup of EU 088 to measure PM emissions.	[Stage 1] Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup of EU 088 to measure PM10 emissions.	[Stage 1] Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup of EU 088 to measure PM2.5 emissions.	[Stage 1] Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup of EU 088 to measure VOC emissions.	[Stage 1] Minn. R. 7017.2020, subp. 1

Facility Name: Hormel Foods Corp/QPP - Austin

Permit Number: 09900002 - 011

Subject Item: **SV 059 Crax Room Air Stack (CE 029 & CE 030)**

Associated Items: EU 089 Crax Room Air

EU 090 Truck Loadout Room Air

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 2.68 lbs/hour	[Stage 1] Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; meets requirements of Minn. R. 7011.0715, subp. 1(A)
PM < 10 micron: less than or equal to 2.68 lbs/hour	[Stage 1] Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
PM < 2.5 micron: less than or equal to 2.68 lbs/hour	[Stage 1] Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
OPERATING REQUIREMENTS FOR CE 029 AND CE 030	hdr
The Permittee shall operate and maintain the venturi scrubber (CE 029) and packed gas adsorption column (CE 030) at all times that EU 089 is in operation. The Permittee shall document periods of non-operation of the control equipment. Vent all emissions from EU 089 through CE 029 and CE 030.	[Stage 1] Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain the packed gas adsorption column (CE 030) at all times that EU 090 is in operation. The Permittee shall document periods of non-operation of the control equipment. Vent all emissions from EU 090 through CE 030.	[Stage 1] Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
CONTROL EQUIPMENT REQUIREMENTS FOR CE 029 AND CE 030	hdr
The Permittee shall operate and maintain CE 029 so it achieves a control efficiency for Total Particulate Matter: greater than or equal to 94 percent control efficiency	[Stage 1] Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 029 so it achieves a control efficiency for PM < 10 micron: greater than or equal to 84 percent control efficiency	[Stage 1] Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and MInn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 030 so it achieves a control efficiency for Total Particulate Matter: greater than or equal to 85 percent control efficiency	[Stage 1] Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 030 so it achieves a control efficiency for PM < 10 micron: greater than or equal to 84 percent control efficiency	[Stage 1] Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 029 and CE 030 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
Pressure Drop: greater than or equal to 4.0 inches of water column for CE 029 unless a new minimum is set pursuant to Minn. R. 7017.2025, subp. 3, based on values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new minimum shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The minimum is final upon issuance of a permit amendment incorporating the change.	[Stage 1] Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
Water flow rate: greater than or equal to 100 gallons/minute for CE 029 unless a new minimum is set pursuant to Minn. R. 7017.2025, subp. 3, based on values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new minimum shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The minimum is final upon issuance of a permit amendment incorporating the change.	[Stage 1] Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
Pressure Drop: greater than or equal to 2.0 inches of water column for CE 030 unless a new minimum is set pursuant to Minn. R. 7017.2025, subp. 3, based on values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new minimum shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The minimum is final upon issuance of a permit amendment incorporating the change.	[Stage 1] Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14

Water flow rate: greater than or equal to 320 gallons/minute for CE 030 unless a new minimum is set pursuant to Minn. R. 7017.2025, subp. 3, based on values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new minimum shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The minimum is final upon issuance of a permit amendment incorporating the change.	[Stage 1] Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
MONITORING AND RECORDKEEPING FOR CE 029 AND CE 030	hdr
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop and water flow rate for CE 029 and CE 030, as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when CE 029 and CE 030 are in operation.	40 CFR Section 64.7(b); Minn. R. 7017.0200
Daily Inspections: Once each calendar day when EU 089 is operating, the Permittee shall read and record the following: 1) the CE 029 pressure drop in inches of water column; 2) the CE 029 water flow rate in gallons per minute.	[Stage 1] Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; 40 CFR Section 64.3; Minn. R. 7017.0200; Minn. R. 7007.0800, subps. 2 and 14
Daily Inspections: Once each calendar day when either EU 089 or EU 090 is operating, the Permittee shall read and record the following: 1) the CE 030 pressure drop in inches of water column; 2) the CE 030 water flow rate in gallons per minute.	[Stage 1] Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; 40 CFR Section 64.3; Minn. R. 7017.0200; Minn. R. 7007.0800, subps. 2 and 14
Recordkeeping of Pressure Drop and Water Flow Rate for CE 029 and CE 030: The Permittee shall record the time and date of each pressure drop reading and water flow rate reading, and whether or not the observed value was within the range specified in this permit. Recorded values outside the range specified in this permit are considered deviations as defined by Minn. R. 7007.0100, subp. 8a.	[Stage 1] Title I Condition: To avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000; 40 CFR Section 64.3; Minn. R. 7017.0200; Minn. R. 7007.0800, subps. 2 and 14
Periodic Inspections: Once per calendar quarter, or at a frequency prescribed by the manufacturer, the Permittee shall inspect the components of CE 029 and CE 030. The Permittee shall maintain a written record of the results of each inspection.	40 CFR Section 64.3; Minn. R. 7017.0200
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: 1) The pressure drop is below the required minimum; 2) The water flow rate is below the permitted minimum; or 3) The scrubber or any of its components are found during any inspection to need repair. Corrective actions shall return the pressure drop to within the permitted range, the water flow rate to at least the required 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 CE 029 and CE 030. The Permittee shall keep a record of the type and date of any corrective action taken.	40 CFR Section 64.7(d); Minn. R. 7017.0200
The Permittee shall calibrate or replace the CE 029 and CE 030 pressure drop and flow rate monitors at least annually and shall maintain a written record of any action resulting from the calibration or replacement.	40 CFR Section 64.3; Minn. R. 7017.0200
Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing pressure drop range, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change.	40 CFR Section 64.7(e); Minn. R. 7017.0200
As required by 40 CFR Section 64.9(a)(2), for the Semiannual Deviations Report listed in Table B of this permit and/or the Notification of Deviations Endangering Human Health and the Environment listed earlier in Table A of this permit, as applicable, the Permittee shall include the following related to the monitoring identifiedas required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents.	40 CFR Section 64.9(a)(2); Minn. R. 7017.0200

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The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained for five (5) years. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.	40 CFR Section 64.9(b); Minn. R. 7017.0200
NOTIFICATION REQUIREMENTS (See Table B)	hdr

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Subject Item: **EU 027 Rendering Room Air**

Associated Items: CE 008 Packed-Gas Adsorption Column

SV 026 Rendering Room Air Packed Tower Scrubber Stack

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 8.38 lbs/hour	Title I Condition: To limit potential PM emissions to less than major source levels as defined by 40 CFR 52.21; Minn. R. 7007.3000; meets requirements of Minn. R. 7011.0715, subp. 1(A)
Particulate Matter < 10 micron: less than or equal to 8.38 lbs/hour	Title I Condition: To limit potential PM10 emissions to less than major source levels as defined by 40 CFR 52.21; Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
OPERATING REQUIREMENTS	hdr
The Permittee shall operate and maintain the packed tower A (CE 008) at all times that the process equipment (EU 028 rendering machinery that emits EU 027 rendering room air emissions) controlled by CE 008 is in operation. The Permittee shall document periods of non-operation of the control equipment. Vent all emissions from EU 027 through CE 008.	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
CE 008 (TOWER A) CONTROL EQUIPMENT REQUIREMENTS	hdr
The Permittee shall operate and maintain CE 008 so it achieves a control efficiency for Total Particulate Matter: greater than or equal to 85 percent control efficiency	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 008 so it achieves a control efficiency for PM < 10 micron: greater than or equal to 85 percent control efficiency	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 008 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
CE 008 Pressure Differential: Greater than or equal to 5 inches w.c., unless a new minimum is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new minimum shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The minimum is final upon issuance of a permit amendment incorporating the change.	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
CE 008 Water Flow Rate: Greater than or equal to 100 gallons per minute, unless a new minimum is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new minimum shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The minimum is final upon issuance of a permit amendment incorporating the change.	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
MONITORING AND RECORDKEEPING	hdr
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop and water flow rate for CE 008, as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when CE 008 is in operation.	40 CFR Section 64.7(b); Minn. R. 7017.0200
Daily Inspections: Once each calendar day when EU 027 is operating, the Permittee shall read and record the following: 1. the CE 008 pressure differential; 2. the CE 008 water flow rate.	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14; 40 CFR Section 64.3; Minn. R. 7017.0200
Recordkeeping of Pressure Drop and Water Flow Rate: The Permittee shall record the time and date of each pressure drop reading and water flow rate reading, and whether or not the observed value was within the range specified in this permit. Recorded values outside the range specified in this permit are considered deviations as defined by Minn. R. 7007.0100, subp. 8a.	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 & 5; 40 CFR Section 64.3; Minn. R. 7017.0200
Periodic Inspections: Once per calendar quarter, or at a frequency prescribed by the manufacturer, the Permittee shall inspect the components of CE 008. The Permittee shall maintain a written record of the results of each inspection.	40 CFR Section 64.3; Minn. R. 7017.0200

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Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - the pressure drop is below the required minimum; - the water flow rate is below the permitted minimum; or - the scrubber or any of its components are found during any inspection to need repair. Corrective actions shall return the pressure drop to within the permitted range, the water flow rate to at least the required 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 CE 008. The Permittee shall keep a record of the type and date of any corrective action taken.	40 CFR Section 64.7(d); Minn. R. 7017.0200
The Permittee shall calibrate or replace the CE 008 pressure differential and flow rate monitors at least annually and shall maintain a written record of any action resulting from the calibration or replacement.	40 CFR Section 64.3; Minn. R. 7017.0200
Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing pressure drop range, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change.	40 CFR Section 64.7(e); Minn. R. 7017.0200
As required by 40 CFR Section 64.9(a)(2), for the Semi-Annual Deviations Report listed in Table B of this permit and/or the Notification of Deviations Endangering Human Health and the Environment listed earlier in Table A of this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents.	40 CFR Section 64.9(a)(2); Minn. R. 7017.0200
The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained for five (5) years. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.	40 CFR Section 64.9(b); Minn. R. 7017.0200
SHUTDOWN REQUIREMENTS	hdr
Shutdown: due 180 days after Initial Startup of EU 088. The conditions in the permit applicable to EU 027 and associated items remains effective until permanent shutdown of EU 027 occurs.	Minn. R. 7007.0800, subp. 2

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Subject Item: **EU 028 Rendering Machinery**

Associated Items: CE 008 Packed-Gas Adsorption Column

CE 009 Venturi Scrubber

CE 022 Packed-Gas Adsorption Column

CE 023 Packed-Gas Adsorption Column

CE 026 Thermal Oxidizer

SV 026 Rendering Room Air Packed Tower Scrubber Stack

SV 027 Rendering Cooker Stack

SV 058 Regenerative Thermal Oxidizer (CE 026)

What to do	Why to do it
Subject Item EU 028 contains requirements applicable either: 1. prior to the startup of CE 026; 2. after the startup of CE 026; or, 3. both prior and after the startup of CE 026. Requirements under any header that states 'APPLY ONLY BEFORE CE 026 STARTUP' are no longer effective upon CE 026 startup. Prior to CE 026 startup, EU 028 emissions will vent to CE 009, CE 022, and CE 023 and then either vented to the atmosphere through SV 027, or routed to CE 008 and then vented to the atmosphere through SV 026. After CE 026 startup, EU 028 emissions will be vented to CE 009 and then to CE 026 and then to the atmosphere through SV 058, and CE 022 and CE 023 will be shutdown.	hdr
EMISSION LIMITS - APPLY BEFORE AND AFTER CE 026 STARTUP Refer to SV 058 for additional applicable limits and requirements that apply after CE 026 startup	hdr
Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. After CE 026 startup, this limit applies at the outlet of CE 009 and does not apply to SV 058.	Minn. R. 7011.0715, subp. 1(A)
Opacity: less than or equal to 20 percent opacity . After CE 026 startup, this limit applies at the outlet of CE 009 and does not apply to SV 058.	Minn. R. 7011.0715, subp. 1(B)
OPERATING REQUIREMENTS - APPLY AFTER CE 026 STARTUP	hdr
The Permittee shall operate and maintain the venturi scrubber (CE 009) at all times that the process equipment (EU 028 rendering machinery) controlled by CE 009 is in operation. The Permittee shall document periods of non-operation of the control equipment. Vent all emissions from Rendering Machinery through CE 009, CE 026 (RTO), and then through SV 058. After CE 026 startup, the Permittee shall not route EU 028 emissions through CE 022 and CE 023.	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
CONTROL EQUIPMENT REQUIREMENTS - APPLY AFTER CE 026 STARTUP Refer to SV 058 for CE 026 applicable requirements	hdr
The Permittee shall operate and maintain CE 009 to achieve a total control efficiency for Total Particulate Matter: greater than or equal to 94 percent control efficiency	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 009 to achieve a total control efficiency for PM < 10 micron: greater than or equal to 84 percent control efficiency	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 009 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, subps. 2 and 14

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CE 009 Pressure Differential: Greater than or equal to 5 inches w.c.	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
CE 009 Water Flow Rate: Greater than or equal to 50 gallons per minute.	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
MONITORING AND RECORDKEEPING - APPLY AFTER CE 026 STARTUP	hdr
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop and water flow rate for CE 009, as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when CE 009 is in operation.	40 CFR Section 64.7(b); Minn. R. 7017.0200
Daily Inspections: Once each calendar day when EU 028 is operating, the Permittee shall read and record the following: 1. the CE 009 pressure differential; 2. the CE 009 water flow rate.	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14; 40 CFR Section 64.3; Minn. R. 7017.0200
Recordkeeping of CE 009 Pressure Drop and Water Flow Rate: The Permittee shall record the time and date of each pressure drop reading and water flow rate reading, and whether or not the observed value was within the range specified in this permit. Recorded values outside the range specified in this permit are considered deviations as defined by Minn. R. 7007.0100, subp. 8a.	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 & 5; 40 CFR Section 64.3; Minn. R. 7017.0200
Periodic Inspections: Once per calendar quarter, or at a frequency prescribed by the manufacturer, the Permittee shall inspect the components of CE 009. The Permittee shall maintain a written record of the results of each inspection.	40 CFR Section 64.3; Minn. R. 7017.0200
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - the CE 009 pressure drop is below the required minimum; - the CE 009 water flow rate is below the permitted minimum; or - CE 009 or any of its components are found during any inspection to need repair. Corrective actions shall return the pressure drop to within the permitted range, the water flow rate to at least the required 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 CE 009. The Permittee shall keep a record of the type and date of any corrective action taken.	40 CFR Section 64.7(d); Minn. R. 7017.0200
The Permittee shall calibrate or replace the CE 009 pressure differential and flow rate monitors at least annually and shall maintain a written record of any action resulting from the calibration or replacement.	40 CFR Section 64.3; Minn. R. 7017.0200
Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing pressure drop range, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change.	40 CFR Section 64.7(e); Minn. R. 7017.0200
As required by 40 CFR Section 64.9(a)(2), for the Semi-Annual Deviations Report listed in Table B of this permit and/or the Notification of Deviations Endangering Human Health and the Environment listed earlier in Table A of this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents.	40 CFR Section 64.9(a)(2); Minn. R. 7017.0200
The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained for five (5) years. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.	40 CFR Section 64.9(b); Minn. R. 7017.0200
EMISSION LIMITS - APPLY ONLY BEFORE CE 026 STARTUP	hdr

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Total Particulate Matter: less than or equal to 7.34 lbs/hour for SV 027. This limit applies when EU 028 emissions are controlled by CE 009 (venturi scrubber), CE 022 (Tower B), and CE 023 (Tower C) and vented through SV 027 (rendering process equipment bypass stack). See EU 027 for applicable limit when EU 028 emissions are controlled by CE 009 & CE 008 (Tower A) and vented through SV 026 (main stack).	Title I Condition: To limit potential PM emissions to less than major source levels as defined by 40 CFR 52.21; Minn. R. 7007.3000; meets requirements of Minn. R. 7011.0715, subp. 1(A)
PM < 10 micron: less than or equal to 7.34 lbs/hour for SV 027. This limit applies when EU 028 emissions are controlled by CE 009 (venturi scrubber), CE 022 (Tower B), and CE 023 (Tower C) and vented through SV 027 (rendering process equipment bypass stack). See EU 027 for applicable limit when EU 028 emissions are controlled by CE 009 & CE 008 (Tower A) and vented through SV 026 (main stack).	Title I Condition: To limit potential PM emissions to less than major source levels as defined by 40 CFR 52.21; Minn. R. 7007.3000
OPERATING REQUIREMENTS - APPLY ONLY BEFORE CE 026 STARTUP	hdr
Vent all emissions from Rendering Machinery through CE 009 (venturi scrubber), and then CE 022 (Tower B) and CE 023 (Tower C). After CE 023 the Permittee has the option of routing emissions to CE 008 (Tower A) and then through SV 026, or bypass CE 008 and vent from CE 023 through SV 027.	Minn. R. 7007.0800, subp. 2
CE 009 (VENTURI SCRUBBER), CE 022 (TOWER B), AND CE 023 (TOWER C) CONTROL EQUIPMENT REQUIREMENTS - APPLY BEFORE CE 026 STARTUP	hdr
The Permittee shall operate and maintain CE 022 and CE 023 so that each achieves a control efficiency for Total Particulate Matter: greater than or equal to 85 percent control efficiency	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 022 and CE 023 so that each achieves a control efficiency for PM < 10 micron: greater than or equal to 85 percent control efficiency	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 009 so that the scrubber achieves a total control efficiency for Total Particulate Matter: greater than or equal to 94 percent control efficiency	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 009 so that the scrubber achieves a total control efficiency for PM < 10 micron: greater than or equal to 84 percent control efficiency	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 009, CE 022, and CE 023 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
Monitoring Equipment: The Permittee shall maintain the necessary monitoring equipment for measuring and recording pressure drop and water flow rate as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when CE 009, CE 022, and CE 023 are in operation.	Minn. R. 7007.0800, subp. 4
CE 009, CE 022, and CE 023 Pressure Differential: Less than 5 inches wc for CE 022, less than 5 inches wc for CE 023, and not less than 5 inches wc for CE 009.	Minn. R. 7007.0800, subp. 14
CE 009, CE 022, and CE 023 Water Flow Rate: Not less than 20 gallons per minute for CE 022, not less than 30 gallons per minute for CE 023, and not less than 50 gallons per minute for CE 009.	Minn. R. 7007.0800, subp. 14
CE 009, CE 022, and CE 023 Daily Monitoring: Once each day of operation, the Permittee shall monitor and record the pressure differential and water flow rate for CE 009, CE 022, and CE 023.	Minn. R. 7007.0800, subp. 4 and 5
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturer, the Permittee shall inspect the components of CE 009, CE 022, and CE 023. The Permittee shall maintain a written record of the results of each inspection.	Minn. R. 7007.0800, subp. 4, 5, and 14

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Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - the pressure drop of CE 009, CE 022, or CE 023 is below the required minimum; - the water flow rate of CE 009, CE 022, or CE 023 is below the permitted minimum; or - CE 009, CE 022, or CE 023 or any of their components are found during any inspection to need repair. Corrective actions shall return the pressure drop to within the permitted range, return the water flow rate 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 CE 009, CE 022, or CE 023. 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
SHUTDOWN REQUIREMENTS	hdr
Shutdown: due 180 days after Initial Startup of EU 088. The conditions in the permit applicable to EU 028 and associated items remains effective until permanent shutdown of EU 028 occurs.	Minn. R. 7007.0800, subp. 2

Facility Name: Hormel Foods Corp/QPP - Austin

Permit Number: 09900002 - 011

Subject Item: **EU 051 Emergency RICE(s)**

Associated Items: GP 001 SO2 and NOx Limits

SV 044 Emergency RICE(s) (EU 051)

What to do	Why to do it
LIMITS AND OPERATING REQUIREMENTS	hdr
Operating Hours: less than or equal to 500 hours/year using 12-month Rolling Sum as a total for all emergency RICE.	Minn. R. 7007.0800, subp. 2 and September 6, 1995, U.S. EPA memorandum entitled "Calculating Potential to Emit for Emergency Generators"
Sulfur Dioxide: less than or equal to 0.5 lbs/million Btu heat input	Minn. R. 7011.2300, subp. 2
Opacity: less than or equal to 20 percent opacity once operating temperatures have been attained.	Minn. R. 7011.2300, subp. 1
Emergency Reciprocating Internal Combustion Engine (RICE) Operation: The Permittee is authorized to operate temporary or permanent emergency RICE at the facility, providing the total horsepower of all emergency RICE does not exceed 599 hp on a calendar-day basis, and any single engine does not exceed 500 hp.	Minn. R. 7007.0800, subp. 2
Permitted Fuels: gasoline, diesel fuel, natural gas, kerosene/naphtha, butane, liquified petroleum gases (LPG), or propane.	Minn. R. 7007.0800, subp. 2
Operation of Emergency RICE(s): The EU 051 Emergency RICE(s) shall only operate under emergency situations. An emergency RICE is a reciprocating internal combustion engine which only operates when no other mechanical power source is available to meet life safety and temporary production requirements, and operates for necessary routine periodic equipment testing. Life safety and temporary production requirements do not occur during routine operation or production and are circumstances demanding power to avoid death, illness, injury, or damage to process equipment or product. An emergency RICE is a power source used to generate electricity, pump water or other liquids, or other application. Emergency RICE does not include RICE electric generators operated by an electric customer during periods of intentional electric service disruption by the electric service provider or a RICE used as a substitute for another power source that is undergoing scheduled maintenance.	Minn. R. 7007.0800, subp. 2
RECORDKEEPING	hdr
Recordkeeping: For each emergency RICE that is operated at the facility, the Permittee shall record the arrival and departure date of the engine. Once each day, the Permittee shall record in a log the serial number, model, manufacturer, horsepower rating and hours of operation of each emergency RICE that operated at the facility during the previous calendar day. If no emergency RICE were operated, the log shall indicate this. By the 15th day of each month, the Permittee shall calculate and record the total emergency RICE operating hours for the previous month, and the previous 12-month period.	Minn. R. 7007.0800, subp. 4 and 5
Diesel Fuel Supplier Certification: For each delivery of diesel fuel, the Permittee shall obtain a supplier certification that either states the actual sulfur content in percent by weight in the diesel fuel, or guarantees that the sulfur content does not exceed 0.0015 percent by weight.	Minn. R. 7007.0800, subp. 4 and 5
Recordkeeping - Fuel Usage: Once each day calculate and record the EU 051 usage of gasoline (gallons), diesel fuel (gallons), natural gas (cubic feet), kerosene/naphtha (gallons), butane (gallons), liquified petroleum gases (LPG) (gallons), or propane (gallons) during the previous calendar day. By the 15th day of each month, calculate and record the EU 051 usage of gasoline (gallons), diesel fuel (gallons), natural gas (cubic feet), kerosene/naphtha (gallons), butane (gallons), liquified petroleum gases (LPG) (gallons), or propane (gallons) during the previous calendar month. The Permittee shall convert and record the monthly fuel usage from a volume basis, to a heat input basis according to the procedure in the appendix.	Title I Condition: To limit potential NOx emissions to less than major source levels defined by 40 CFR Section 52.21; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 and 5

Facility Name: Hormel Foods Corp/QPP - Austin

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Nitrogen Oxides Emissions Monitoring: By the 15th day of each month the Permittee shall: 1) Calculate and record EU 051 NOx emissions during the previous calendar month using the following equation: NOx = (Fa * Ha) + (Fb * Hb) + (Fc * Hc) + (Fd * Hd) + (Fe * He) + (Ff * Hf) (continued)	Minn. R. 7007.0800, subp. 4 and 5
where: NOx = EU 051 pounds NOx/month Fa = diesel fuel emission factor Ha = diesel fuel heat input Fb = natural gas emission factor Hb = natural gas heat input Fc = gasoline emission factor Hc = gasoline heat input Fd = propane/liquified petroleum gases (LPG) emission factor Hd = propane/liquified petroleum gases (LPG) heat input Fe = kerosene/naphtha emission factor He = kerosene/naphtha heat input Ff = butane emission factor Hf = butane heat input All heat inputs are in units of mmBtu per month and determined according to the procedure in the appendix. Emission factors (lb/mmBtu) are listed in the appendix, or obtained from the current version of AP-42 or the current MPCA emission calculation form for internal combustion engines, if more current than the appendix.	Minn. R. 7007.0800, subp. 4 and 5

Facility Name: Hormel Foods Corp/QPP - Austin

Permit Number: 09900002 - 011

Subject Item: **EU 087 Regenerative Thermal Oxidizer (CE 026)**

Associated Items: SV 058 Regenerative Thermal Oxidizer (CE 026)

What to do	Why to do it
Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735.	Minn. R. 7011.0610, subp. 1(A)(1)
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0610, subp. 1(A)(2)
Permitted fuel: natural gas only. Combustion of only natural gas ensures compliance with Minn. R. 7011.0715, subp. 1.A.	Minn. R. 7007.0800, subp. 2

Facility Name: Hormel Foods Corp/QPP - Austin

Permit Number: 09900002 - 011

Subject Item: **EU 088 Refined Products Machinery**

Associated Items: CE 026 Thermal Oxidizer

CE 027 Venturi Scrubber

CE 028 Packed-Gas Adsorption Column

SV 058 Regenerative Thermal Oxidizer (CE 026)

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.97 lbs/hour	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; meets requirements of Minn. R. 7011.0715, subp. 1(A)
PM < 10 micron: less than or equal to 0.97 lbs/hour	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
PM < 2.5 micron: less than or equal to 0.97 lbs/hour	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
Volatile Organic Compounds: less than or equal to 0.97 lbs/hour	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
OPERATING REQUIREMENTS	hdr
The Permittee shall operate and maintain the venturi scrubber (CE 027), the packed-gas adsorption column (CE 028), and the RTO (CE 026) at all times that EU 088 is in operation. The Permittee shall document periods of non-operation of the control equipment. Vent all emissions from Rendering Machinery through CE 027, CE 028, CE 026 (RTO), and then through SV 058.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
CONTROL EQUIPMENT REQUIREMENTS (See SV 058 for CE 026 Requirements)	hdr
The Permittee shall operate and maintain CE 027 so it achieves a total control efficeincy for Total Particulate Matter: greater than or equal to 94 percent control efficiency	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 027 so it achieves a total control efficency for PM < 10 micron: greater than or equal to 84 percent control efficiency	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 027 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, subps. 2 and 14
Pressure Drop: greater than or equal to 4.0 inches of water column for CE 027, unless a new minimum is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new minimum shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The minimum is final upon issuance of a permit amendment incorporating the change.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
Water flow rate: greater than or equal to 50.0 gallons/minute for CE 027, unless a new minimum is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new minimum shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The minimum is final upon issuance of a permit amendment incorporating the change.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 028 so it achieves a total control efficiency for Total Particulate Matter: greater than or equal to 85 percent control efficiency	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 028 so it achieves a total control efficiency for PM < 10 micron: greater than or equal to 84 percent control efficiency	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 028 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, subps. 2 and 14

Pressure Drop: greater than or equal to 2.0 inches of water column for CE 028, unless a new minimum is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new minimum shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The minimum is final upon issuance of a permit amendment incorporating the change.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
Water flow rate: greater than or equal to 120.0 gallons/minute for CE 028, unless a new minimum is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new minimum shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The minimum is final upon issuance of a permit amendment incorporating the change.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
MONITORING AND RECORDKEEPING	hdr
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop and water flow rate for CE 027 and CE 028, as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when CE 027 and CE 028 are in operation.	40 CFR Section 64.7(b); Minn. R. 7017.0200
Daily Inspections: Once each calendar day when EU 088 is operating, the Permittee shall read and record the following: 1) Pressure drop for CE 027 and CE 028 in inches of water column; 2) Water flow rate for CE 027 and CE 028 in gallons per minute.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; 40 CFR Section 64.3; Minn. R. 7017.0200; Minn. R. 7007.0800, subps. 2 and 14
Pressure Drop and Water Flow Rate Recordkeeping for CE 027 and CE 028: The Permittee shall record the time and date of each pressure drop reading and water flow rate reading, and whether or not the observed value was within the range specified in this permit. Recorded values outside the range specified in this permit are considered deviations as defined by Minn. R. 7007.0100, subp. 8a.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; 40 CFR Section 64.3; Minn. R. 7017.0200; Minn. R. 7007.0800, subps. 4 and 5
Periodic Inspections: Once per calendar quarter, or at a frequency predescribed by the manufacturer, the Permittee shall inspect the components of CE 027 and CE 028. The Permittee shall maintain a written record of the results of each inspection.	40 CFR Section 64.3; Minn. R. 7017.0200
Corrective Actions: The Permittee shall take corrective actions as soon as possible if any of the following occur: 1) The CE 027 or CE 028 pressure drop is below the required minimum; 2) The CE 027 or CE 028 water flow rate is below the permitted minimum; or 3) CE 027 or CE 028 or any of their components are found during any inspection in need of repair. Corrective actions shall return the pressure drop to within the permitted range, the water flow rate to at least the required 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 CE 027 and CE 028. The Permittee shall keep a record of the type and date of any corrective actions taken.	40 CFR Section 64.7(d); Minn. R. 7017.0200
The Permittee shall calibrate or replace the CE 027 and CE 028 pressure drop and water flow rate monitors at least annually and shall maintain a written record of any action resulting from the calibration or replacement.	40 CFR Section 64.3; Minn. R. 7017.0200
Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing pressure drop range, the Permitte shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change.	40 CFR Section 64.7(e); Minn. R. 7017.0200
As required by 40 CFR Section 64.9(a)(2), for the Semiannual Deviations Report listed in Table B of this permit and/or the Notification of Deviations Endangering Human Health and the Environment listed earlier in Table A of this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable and the corrective actions taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents.	40 CFR Section 64.9(a)(2); Minn. R. 7017.0200

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The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained for five (5) years. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.	40 CFR Section 64.9(b); Minn. R. 7017.0200
NOTIFICATION REQUIREMENTS (See Table B)	hdr

Facility Name: Hormel Foods Corp/QPP - Austin

Permit Number: 09900002 - 011

Subject Item: **EU 091 Refined Products Room Air**

Associated Items: CE 031 Packed-Gas Adsorption Column

SV 060 Refined Products Room Air Stack #1

SV 061 Refined Products Room Air Stack #2

What to do	Why to do it
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 8.38 lbs/hour	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; meets requirements of Minn. R. 7011.0715, subp. 1(A)
PM < 10 micron: less than or equal to 8.38 lbs/hour	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
PM < 2.5 micron: less than or equal to 8.38 lbs/hour	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
OPERATING REQUIREMENTS	hdr
The Permittee shall operate and maintain the packed-gas adsorption column (CE 031) at all times that EU 091 is in operation. The Permittee shall document periods of non-operation of the control equipment. Vent all emissions from EU 091 through CE 031.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
CONTROL EQUIPMENT REQUIREMENTS	hdr
The Permittee shall operate and maintain CE 031 so it achieves a total control efficiency for Total Particulate Matter: greater than or equal to 85 percent control efficiency	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 031 so it achieves a total control efficiency for PM < 10 micron: greater than or equal to 84 percent control efficiency	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 031 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, subps. 2 and 14
Pressure Drop: greater than or equal to 2.0 inches of water column for CE 031, unless a new minimum is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new minimum shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The minimum is final upon issuance of a permit amendment incorporating the change.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
Water flow rate: greater than or equal to 1000 gallons/minute for CE 031, unless a new minimum is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new minimum shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The minimum is final upon issuance of a permit amendment incorporating the change.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
MONITORING AND RECORDKEEPING	hdr
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop and water flow rate for CE 031, as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when CE 031 is in operation.	40 CFR Section 64.7(b); Minn. R. 7017.0200
Daily Inspections: Once each calendar day when EU 091 is operating, the Permittee shall read and record the following: 1) Pressure drop for CE 031 in inches of water column; 2) Water flow rate for CE 031 in gallons per minute.	[Stage 1] Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; 40 CFR Section 64.3; Minn. R. 7017.0200; Minn. R. 7007.0800, subps. 2 and 14
Recordkeeping of Pressure Drop and Water Flow Rate for CE 031: The Permittee shall record the time and date of each pressure drop reading and water flow rate reading, and whether or not the observed value was within the range specified in this permit. Recorded values outside the range specified in this permit are considered deviations as defined by Minn. R. 7007.0100, subp. 8a.	[Stage 1] Title I Condition: To avoid classifcation as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; 40 CFR Section 64.3; Minn. R. 7017.0200; Minn. R. 7007.0800, subps. 4 and 5

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Periodic Inspections: Once per calendar quarter, or at a frequency prescribed by the manufacturer, the Permittee shall inspect the components of CE 031. The Permittee shall maintain a written record of the results of each inspection.	40 CFR Section 64.3; Minn. R. 7017.0200
Corrective Actions: The Permittee shall take corrective action as soon as possible in any of the following occur: 1) The CE 031 pressure drop is below the required minimum; 2) The CE 031 water flow rate is below the permitted minimum; or 3) The scrubber or any of its components are found during any inspection to be in need of repair. Corrective actions shall return the pressure drop to within the permitted range, the water flow rate to at least the required 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 CE 031. The Permittee shall keep a record of the type and date of any corrective actions taken.	40 CFR Section 64.7(d); Minn. R. 7017.0200
The Permittee shall calibrate or replace the CE 031 pressure drop and flow rate monitors at least annually and shall maintain a written record of any action resulting from the calibration or replacement.	40 CFR Section 64.3; Minn. R. 7017.0200
Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing pressure drop range, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change.	40 CFR Section 64.7(e); Minn. R. 7017.0200
As required by 40 CFR Section 64.9(a)(2), for the Semiannual Deviations Report listed iin Table B of this permit and/or the Notification of Deviations Endangering Human Health and the Environment listed earlier in Table A of this permit, as applicable, the Permitte shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective actions taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents.	40 CFR Section 64.9(a)(2); Minn. R. 7017.0200
The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained for five (5) years. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.	40 CFR Section 64.9(b); Minn. R. 7017.0200
NOTIFICATION REQUIREMENTS (See Table B)	hdr

Facility Name: Hormel Foods Corp/QPP - Austin

Permit Number: 09900002 - 011

Subject Item: **EU 092 Refined Products MAU 1**

Associated Items: GP 014 Refined Products Makeup Air Units

SV 062 Refined Products MAU 1 Stack

What to do	Why to do it
NOTIFICATION REQUIREMENTS (See Table B)	hdr

Facility Name: Hormel Foods Corp/QPP - Austin

Permit Number: 09900002 - 011

Subject Item: **EU 093 Refined Products MAU 2**

Associated Items: GP 014 Refined Products Makeup Air Units

SV 063 Refined Products MAU 2 Stack

What to do	Why to do it
NOTIFICATION REQUIREMENTS (See Table B)	hdr

Facility Name: Hormel Foods Corp/QPP - Austin

Permit Number: 09900002 - 011

Subject Item: **EU 094 Refined Products MAU 3**

Associated Items: GP 014 Refined Products Makeup Air Units

SV 064 Refined Products MAU 3 Stack

What to do	Why to do it
NOTIFICATION REQUIREMENTS (See Table B)	hdr

Facility Name: Hormel Foods Corp/QPP - Austin

Permit Number: 09900002 - 011

Subject Item: **CE 029 Venturi Scrubber**

Associated Items: EU 089 Crax Room Air

What to do	Why to do it
See SV 059 for applicable CE 029 requirements.	hdr

Facility Name: Hormel Foods Corp/QPP - Austin

Permit Number: 09900002 - 011

Subject Item: **CE 030 Packed-Gas Adsorption Column**

Associated Items: EU 089 Crax Room Air

EU 090 Truck Loadout Room Air

What to do	Why to do it
See SV 059 for applicable CE 030 requirements.	hdr

TABLE B: SUBMITTALS

Facility Name: Hormel Foods Corp/QPP - Austin

Permit Number: 09900002 - 011

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

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

Chief Air Enforcement
Air and Radiation Branch
EPA Region V
77 West Jackson Boulevard
Chicago, Illinois 60604

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

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

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

Send any application for a permit or permit amendment to:

Fiscal Services
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

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.

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

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

TABLE B: ONE TIME SUBMITTALS OR NOTIFICATIONS

Facility Name: Hormel Foods Corp/QPP - Austin

Permit Number: 09900002 - 011

What to send	When to send	Portion of Facility Affected
Application for Permit Reissuance	due 180 days before expiration of Existing Permit	Total Facility
Notification of the Actual Date of Initial Startup	due 15 days after Initial Startup of CE 026/EU 087 or 15 days after permit issuance, whichever is later. The notification shall specify the date that fuel was first combusted by CE 026/EU 087.	SV058
Notification of the Actual Date of Initial Startup	due 15 days after Initial Startup of EU 088.	EU088
Notification of the Actual Date of Initial Startup	due 15 days after Initial Startup of EU 089 and EU 090.	SV059
Notification of the Actual Date of Initial Startup	due 15 days after Initial Startup of EU 091.	EU091
Notification of the Actual Date of Initial Startup	due 15 days after Initial Startup of EU 092.	EU092
Notification of the Actual Date of Initial Startup	due 15 days after Initial Startup of EU 093.	EU093
Notification of the Actual Date of Initial Startup	due 15 days after Initial Startup of EU 094.	EU094
Notification of the Date Construction Began	due 30 days after Start Of Construction of EU 088.	EU088
Notification of the Date Construction Began	due 30 days after Start Of Construction of EU 089 and EU 090.	SV059
Notification of the Date Construction Began	due 30 days after Start Of Construction of EU 091.	EU091
Notification of the Date Construction Began	due 30 days after Start Of Construction of EU 092.	EU092
Notification of the Date Construction Began	due 30 days after Start Of Construction of EU 093.	EU093
Notification of the Date Construction Began	due 30 days after Start Of Construction of EU 094.	EU094
Notification	due 30 days after Shutdown of EU 027. Notification shall be postmarked within 30 days of actual shutdown.	EU027
Notification	due 30 days after Shutdown of EU 028. Notification shall be postmarked within 30 days of actual shutdown.	EU028
Testing Frequency Plan	due 60 days after Initial Performance Test for PM and PM2.5 emissions. The plan shall specify a testing frequency based on the initial performance test results for PM and PM2.5 and MPCA guidance. Future performance tests at 12-month, 36-month, or 60-month intervals, or as applicable, shall be required upon written approval of the test frequency plan.	SV058
Testing Frequency Plan	due 60 days after Initial Performance Test for PM, PM10, PM2.5 and VOC emissions. The plan shall specify a testing frequency based on the initial performance test results for PM, PM10, PM2.5 and VOC and MPCA guidance. Future performance tests at 12-, 36-, or 60-month intervals, or as applicable, shall be required upon written approval of the test frequency plan.	SV058

Facility Name: Hormel Foods Corp/QPP - Austin

Permit Number: 09900002 - 011

Testing Frequency Plan	due 60 days after Performance Test for determining opacity. The plan shall specify a testing frequency for opacity based on the opacity performance test (due 10/26/2017) data and MPCA guidance. Future performance tests based on 12-month, 36-month, or 60-month intervals, or as applicable, shall be required upon written approval of the plan by the MPCA. Future testing shall be conducted on a unit not previously tested. After testing all units, testing shall be conducted on the unit whose previous test is least current.	GP011
Testing Frequency Plan	due 60 days after Performance Test for determining the NOx lb/hr emission factor. The plan shall specify a testing frequency for NOx based on the NOx emission factor performance test (due 10/26/2015) data and MPCA guidance. Future performance tests based on 12-month, 36-month, or 60-month intervals, or as applicable, shall be required upon written approval of the plan by the MPCA. Future testing shall be conducted on a unit not previously tested. After testing all units, testing shall be conducted on the unit whose previous test is least current.	GP011

TABLE B: RECURRENT SUBMITTALS

Facility Name: Hormel Foods Corp/QPP - Austin

Permit Number: 09900002 - 011

What to send	When to send	Portion of Facility Affected
Semiannual Deviations Report	due 30 days after end of each calendar half-year starting 08/05/1999 . 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.	Total Facility
Compliance Certification	due 31 days after end of each calendar year starting 08/05/1999 (for the previous calendar year). The certification shall be submitted on a form approved by the Commissioner, both to the Commissioner and to the US EPA regional office in Chicago. This report covers all deviations experienced during the calendar year.	Total Facility

APPENDIX MATERIAL
Facility Name: Hormel Foods Corp/QPP - Austin
Permit Number: 09900002-011

1. EU 051 Nitrogen Oxides Emission Factors and Fuel Heat Contents

Fuel Type	NOx Emission Factor (lb/mmBtu)	Fuel Heat Content
Gasoline	1.63	0.13 mmBtu/gallon
Diesel Fuel	4.41	0.137 mmBtu/gallon
Natural Gas	4.08	0.0105 mmBtu/cubic foot
Kerosene/naphtha	3.474	0.135 mmBtu/gallon
Propane/ Liquid Petroleum Gas	1.519	0.0915 mmBtu/gallon
Butane	1.355	0.1026 mmBtu/gallon

Conversion of Fuel Volume to Heat Input:

Fv * Fh = Fuel Heat Input (mmBtu/month)

Where:

Fv = volume of fuel used (gallons or cubic feet per month)
Fh = fuel heat content as listed above (mmBtu/gallon or mmBtu/cubic foot)

2. Insignificant Activities Required to be Listed

Minn. R. 7007.1300, subp.	Activity	Applicable Minn. R. Standard
3.A	Space Heaters - N Holding Pen 2 @0.32 mmBtu/hr	7011.0515 PM and opacity
3.A.	Shop Space Heater 0.75 mmBtu/hr	7011.0515 PM and opacity
3.A.	Break Room Space Heater 0.125 mmBtu/hr	7011.0515 PM and opacity
3.E(1)	500 gallon gasoline tank at QPP	
3.F	Laundry units 2 @0.25 mmBtu/hr & 2 @0.20 mmBtu/hr	7011.0515 PM and opacity
3.H(3)	4 welding stations and several portable welders	7011.0715 PM and opacity
3.I	Nine vacuum pump vents	7011.0715 PM and opacity
3.I	GP Salt System	7011.0715 PM and opacity
3.I	GP Sugar System	7011.0715 PM and opacity
3.I	12 smoked meat/prepared sausage ovens w/smoke flavor spray	7011.0610 PM and opacity
3.I	Precooked Bacon Oven Room Vent	7011.0715 PM and opacity
3.I	Three vacuum pump vents	7011.0715 PM and opacity
3.I	MP Salt System	7011.0715 PM and opacity
3.I	17 dry sausage ovens	7011.0715 PM and opacity
3.I	Two vacuum pump vents	7011.0715 PM and opacity
3.I	One 500 gallon diesel fuel tank @QPP	
3.I	One 200,000 gallon lard tank - steam heated	

Minn. R. 7007.1300, subp.	Activity	Applicable Minn. R. Standard
3.I	One 200,000 gallon tallow tank - steam heated	
3.I	Five dehairing room vents	
3.I	KC-7 MAH @2.16 mmBtu/hr	7011.0515 PM and opacity
3.I	Kill Floor MAU @1.0 mmBtu/hr	7011.0515 PM and opacity
3.I	Dessicant Air Handler @0.273 mmBtu/hr	7011.0515 PM and opacity
3.I	RWO MAU @0.243 mmBtu/hr	7011.0515 PM and opacity
3.I	Drench Cabinet MAU @0.21 mmBtu/hr	7011.0515 PM and opacity
3.I	Pig Skin Salt System	7011.0715 PM and opacity
3.I	Office boiler @0.396 mmBtu/hr	7011.0515 PM and opacity
3.I	Rendering MAU @2.17 mmBtu/hr	7011.0515 PM and opacity
3.I	Hog Hair Hydrolyzer	7011.0715 PM and opacity
3.I	New Boiler Room MAU @1.361 mmBtu/hr	7011.0515 PM and opacity
3.I	Natural Gas Standby Generator	7011.2300 SO_2 and opacity
3.I	Refined Products MAU 4	7011.0515 PM and opacity
3.I	Refined Products Roof Top Unit 1	7011.0515 PM and opacity
3.I	Refined Products Roof Top Unit 2	7011.0515 PM and opacity
3.I	Refined Products Energy Recovery Ventilator 1	7011.0515 PM and opacity
3.I	Refined Products Energy Recovery Ventilator 2	7011.0515 PM and opacity
4	Three vapor smoke generators	7011.0715 PM and opacity
4	Old Boiler Room MAU @5.616 mmBtu/hr	7011.0515 PM and opacity
4	Two Radiant Wall Ovens @3.0 mmBtu/hr each	7011.0610 PM and opacity
4	Hog Hair Singer #1 @8 mmBtu/hr	7011.0715 PM and opacity
4	Hog Hair Singer #2 @6.5 mmBtu/hr	7011.0715 PM and opacity
4	KC-9 MAH @5.612 mmBtu/hr	7011.0515 PM and opacity
4	Two Rendering MAH @2.48 mmBtu/hr each	7011.0515 PM and opacity
4	Room Air - Blood/Bone Drying	7011.0715 PM and opacity
4	Dock Area Room Air	7011.0715 PM and opacity
4	Dock Area Surface Vents	7011.0715 PM and opacity
4	Two Hog Cut Space Heaters @ 4mmBtu/hr each	7011.0515 PM and opacity
4	Two Pretreatment Space Heaters @ 2.313 mmBtu/hr each	7011.0515 PM and opacity
4	Two Front End Kill Space Heaters @3.255 mmBtu/hr each	7011.0515 PM and opacity
Minn. R. 7008.4110	Maintenance grinding & sawdust cyclone vented indoors 100% of the time	7011.0715 PM and opacity

3. GP 011 Modeling Parameters

stack/vent number	emission unit	stack height (feet)	flow rate (acfm)	stack diameter (feet)	stack temperature °F	UTM Easting (m)	UTM Northing (m)	NOx lb/hr
SV 051	EU 080	35	15185	1.33	835	502805.2	4835695.6	48.92
SV 052	EU 081	35	15185	1.33	835	502805.2	4835791.0	48.92
SV 053	EU 082	35	15185	1.33	835	502805.2	4835814.5	48.92
SV 054	EU 083	35	15185	1.33	835	502805.2	4835838.0	48.92
SV 055	EU 084	35	15185	1.33	835	502797.0	4836094.5	48.92
SV 056	EU 085	35	15185	1.33	835	502797.0	4836102.3	48.92
SV 057	EU 086	35	15185	1.33	835	502797.0	4836110.1	48.92

4. Greenhouse Gas Emission Calculation Equations and Combustion Unit Inventory

Heat Contents and CO_2e emission factors obtained from part 98 subp. C Table C-1 and C-2

Equation 1.
$CO_2e = [(NG*1028*117.0036) + (RAF*125*156.7864) + (EU\ 051\ CO_2e) + (DO*138*163.6026)]/2000$

Where:

CO_2e = monthly total facility CO_2e (tons/month)
NG = total facility monthly natural gas usage (mmcf/month)
1028 = natural gas heat content (mmBtu/mmcf)
117.0036 = total natural gas CO_2e factor for CO_2, N_2O, and CH_4 emissions (lb/mmBtu)
RAF = total facility monthly refined animal fat usage (1000 gallons/month)
125 = refined animal fat heat content (mmBtu/1000 gallons)
156.7864 = total refined animal fat CO_2e factor for CO_2, N_2O, and CH_4 emissions (lb/mmBtu)
EU 051 CO_2e = total EU 051 CO_2e emissions from LPG, propane, butane, gasoline, and naphtha/kerosene calculated with Equation 2 (lb/month)
DO = total facility monthly No. 2 distillate oil (diesel fuel in peaking generators) usage (1000 gallons/month)
138 = distillate oil heat content (mmBtu/1000 gallons)
163.6026 = total No. 2 distillate oil CO_2e factor for CO_2, N_2O, and CH_4 emissions (lb/mmBtu)

Equation 2.
$EU\ 051\ CO_2e = [(LPG*92*139.3959) + (P*91*136.0449) + (B*101*144.1799) + (G*125*155.3574) + (NK*135*159.7666)]$

Where:

EU 051 CO_2e = monthly EU 051 CO_2e from LPG, butane, gasoline, and naphtha/kerosene (lb/month)
LPG = EU 051 monthly LPG usage (1000 gallons/month)
92 = LPG heat content (mmBtu/1000 gallons)
139.3959 = total LPG CO_2e factor for CO_2, N_2O, and CH_4 emissions (lb/mmBtu)
P = EU 051 monthly propane usage (1000 gallons/month)
91 = propane heat content (mmBtu/1000 gallons)
136.0449 = total propane CO_2e factor for CO_2, N_2O, and CH_4 emissions (lb/mmBtu)
B = EU 051 monthly butane usage (1000 gallons/month)

101 = butane heat content (mmBtu/1000 gallons)
144.1799 = total butane CO_2e factor for CO_2, N_2O, and CH_4 emissions (lb/mmBtu)
G = EU 051 monthly gasoline usage (1000 gallons/month)
125 = gasoline heat content (mmBtu/1000 gallons)
155.3574 = total gasoline CO_2e factor for CO_2, N_2O, and CH_4 emissions (lb/mmBtu)
NK = EU 051 monthly naphtha usage (1000 gallons/month)
135 = naphtha/kerosene heat content (mmBtu/1000 gallons)
159.7666 = total naphtha/kerosene CO_2e factor for CO_2, N_2O, and CH_4 emissions (lb/mmBtu)

HORMEL COMBUSTION EQUIPMENT LIST

Emission Unit ID #	Equipment	Max Firing Rate (mmBtu/hr)	Permitted or Design Fuel
Group 012			
EU001	Boiler 1	49.00	NG, RAF (refined animal fat)
EU002	Boiler 2	49.00	NG, RAF
EU003	Boiler 3	49.00	NG, RAF
EU004	Boiler 4	25.10	NG, RAF
EU005	Boiler 5	7.14	Natural Gas
EU044	Boiler 6	29.40	NG, RAF
EU045	Boiler 7	29.40	NG, RAF
Group 011			
EU080	Generator 1	18.03	FO #2 (No. 2 distillate oil)
EU081	Generator 2	18.03	FO #2
EU082	Generator 3	18.03	FO #2
EU083	Generator 4	18.03	FO #2
EU084	Generator 5	18.03	FO #2
EU085	Generator 6	18.03	FO #2
EU086	Generator 7	18.03	FO #2
EU051	Emergency Generator	4.19	Gasoline, FO #2, NG, kerosene, butane, propane (LPG)
IA EU078	Emergency Generator	1.30	Natural Gas
Other NG Sources			
	Ovens (1.5 mmBtu/hr each * 12 ovens)	18.00	Natural Gas
	Scott Bone Dryer	9.00	Natural Gas
	Duske Blood Dryer	3.50	Natural Gas
	Singer #1	8.00	Natural Gas
	Singer #2	6.50	Natural Gas
	Radiant Wall Oven (1st)	3.00	Natural Gas
	Laundry (2)	0.50	Natural Gas
	Laundry (2)	0.40	Natural Gas
	Livestock Office Boiler	0.40	Natural Gas
	Hog Cut (2)	8.00	Natural Gas

Emission Unit ID #	Equipment	Max Firing Rate (mmBtu/hr)	Permitted or Design Fuel
	Pretreatment (2)	4.63	Natural Gas
	Front End Kill (2)	6.51	Natural Gas
	N. Holding Pen (2)	0.64	Natural Gas
	Shop	0.75	Natural Gas
	KC-9	5.62	Natural Gas
	KC-7	2.16	Natural Gas
	MP-11 Belt Grill	0.28	Natural Gas
	RWO	0.24	Natural Gas
	Rendering (2)	4.95	Natural Gas
	Corvette Building	0.21	Natural Gas
	Old Boiler Room	5.62	Natural Gas
	New Boiler Room	1.36	Natural Gas
	Break Room QPP	0.21	Natural Gas
	Break Room QPP	0.13	Natural Gas
	Kill Floor (Sticking)	1.00	Natural Gas
	Rendering	2.17	Natural Gas
	MP-130 Desiccant Unit	0.86	Natural Gas
	Trim/Blend Desiccant	0.36	Natural Gas
	QPP Office MAU 1	0.26	Natural Gas
	QPP Office RTU 1	0.39	Natural Gas
	QPP Office RTU 2	0.27	Natural Gas
	QPP Office RTU 3	0.57	Natural Gas
	QPP Office RTU 4	0.78	Natural Gas
	QPP Office water htrs	1.50	Natural Gas
	DS 11 Hall Desiccant	0.40	Natural Gas
	Livestock Boilers (2)	6.00	Natural Gas
	Refined Products MAU 4	0.606	Natural Gas
	Refined Products RTU 1	0.105	Natural Gas
	Refined Products RTU 2	0.24	Natural Gas
	Refined Products ERV 1	0.10	Natural Gas
	Refined Products ERV 2	0.10	Natural Gas