



State of Ohio Environmental Protection Agency

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Columbus, OH 43216-1049

01/20/00

CERTIFIED MAIL

RE: Draft Title V Chapter 3745-77 permit

05-75-01-0160
CARGILL, INCORPORATED
MICHAEL HOERLE
2400 INDUSTRIAL DRIVE
SIDNEY, OH 45365-8952

Dear MICHAEL HOERLE:

You are hereby notified that the Ohio Environmental Protection Agency has prepared the enclosed draft of the Title V permit for the facility referenced above. The purpose of this draft is to solicit public comments. A public notice concerning the draft will appear in the Ohio EPA Weekly Review and the major newspaper in the county where the facility is located. Comments and/or a request for a public hearing from the public and any affected parties will be accepted by Southwest District Office within 30 days of the date of publication in the newspaper. You will be notified in writing if a public hearing is scheduled.

A decision on processing the Title V permit will be made after consideration of written public comments and oral testimony (if a public hearing is conducted). After the comment period, you will be provided with a Preliminary Proposed Title V permit and an opportunity to comment prior to the Proposed Title V permit submittal to USEPA.

If you have any questions or comments concerning this draft Title V permit, please contact Southwest District Office.

Very truly yours,

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA (electronic)
Jim Orlemann, DAPC Engineering
Michael Ahern, DAPC PMU
Southwest District Office
Indiana



Ohio EPA

State of Ohio Environmental Protection Agency

DRAFT TITLE V PERMIT

Issue Date: 01/20/00

Effective Date:

Expiration Date:

The duration of this permit will be five years.

This document constitutes issuance to:

CARGILL, INCORPORATED
2400 INDUSTRIAL DRIVE
SIDNEY, OH 45365-8952

of a Title V permit for Facility ID: 05-75-01-0160

Emissions Unit ID (Company ID)/
Emissions Unit Activity Description:

B001 (BOILER #1)
BOILER #1, 54.35 MMBTU/HR COAL-FIRED

B002 (BOILER #2)
BOILER #2, 54.35 MMBTU/HR COAL-FIRED

B005 (HYDROGEN PLANT)
HYDROGEN PLANT, INCLUDING 21.86 MMBTU/HR NG-FIRED REACTOR, HYDROGEN STORAGE

B006 (BOILER #4)
BOILER #4, 62 MMBTU/HR NG-FIRED

P004 (SCALPING)
SCALPING - SHARED CD AND STACK WITH P024

P005 (HEADHOUSE)
HEADHOUSE

P006 (COLUMN GRAIN DRYER #1)
COLUMN GRAIN DRYER #1

P007 (SCALPING & CRACKING)
REMOVES FOREIGN MATERIAL BY PHYSICAL MEANS

P008 (SECONDARY DEHULLING (#2 DUST COLLECTOR))
SECONDARY DEHULLING (#2 DUST COLLECTOR)

P009 (PRIMARY DEHULLING (#3 & #4 DUST COLLECTORS))

PRIMARY DEHULLING (#3 & #4 DUST COLLECTORS)

P010 (FLAKERS)
FLAKER

P011 (HULL AND POD GRINDING)
HULL AND POD GRINDING

P012 (CONDITIONER)
CONDITIONER

P015 (MEAL GRINDING & SIFTING)
MEAL GRINDING & SIFTING

P016 (MEAL SCREENING)
MEAL LOADOUT SCREEN AND SCALE HOPPER (DUST COLLECTOR 871)

P018 (VEGETABLE OIL EXTRACTION)
VEGETABLE OIL EXTRACTION - INCLUDES ALL HEXANE EMISSIONS PRIOR TO REFINERY

P024 (ASPIRATOR)
ASPIRATOR - SHARED CD AND STACK WITH P004

P030 (DRYER/COOLER EX-2)
DRYER/COOLER EX-2

P031 (VEGETABLE OIL REFINERY)
VEGETABLE OIL REFINERY

P032 (MEAL STORAGE TANK WEST (44%))
MEAL STORAGE TANK WEST (44%)

P033 (MEAL STORAGE TANK EAST (48%))
MEAL STORAGE TANK EAST (48%)

P034 (COLUMN GRAIN DRYER #2)
COLUMN GRAIN DRYER #2

P901 (MEAL TRUCK LOADING)
MEAL TRUCK LOADING

P902 (MEAL RAIL LOADING)
MEAL RAIL LOADING

P903 (TRUCK RECEIVING)
TRUCK RECEIVING

P904 (RAIL RECEIVING)
RAIL RECEIVING

T002 (HEXANE TANK #85)
HEXANE TANK #85, UNDERGROUND HEXANE STORAGE - EMISSIONS INCLUDED IN P018

T003 (HEXANE TANK #86)
HEXANE TANK #86 - EMISSIONS INCLUDED IN P018

Z001 (PAVED HAUL ROAD)

PAVED HAUL ROAD

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-04(A) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Described below is the current Ohio EPA District Office or local air agency that is responsible for processing and administering your Title V permit:

Southwest District Office
401 East Fifth Street
Dayton, OH 45402-2911
(513) 285-6357

OHIO ENVIRONMENTAL PROTECTION AGENCY

Christopher Jones
Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. The operating conditions existing at the time of sampling or measurement.
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. These quarterly written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06. The written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.) See B.6 below if no deviations occurred during the quarter.
 - iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, recordkeeping, and reporting requirements. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
 - iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports submitted pursuant to OAC rule 3745-15-06 shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of deviations caused by malfunctions or upsets.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

If applicable, the permittee shall develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. (“Act”); and, pursuant to 40 CFR 68.215(a), the permittee shall submit either of the following:

- a. a compliance plan for meeting the requirements of 40 CFR Part 68 by the date specified in 40 CFR 68.10(a) and OAC 3745-104-05(A); or
- b. as part of the compliance certification submitted under 40 CFR 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 CFR Part 68 and OAC Chapter 3745-104, including the registration and submission of the risk management plan.

4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.

- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

7. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78.

8. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

9. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these general terms and conditions shall apply to all operating scenarios authorized in this permit.

10. Reopening for Cause

This Title V permit will be reopened prior to its expiration date under the following conditions:

- a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.
- b. This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.
- c. The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.
- d. The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

11. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

12. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be

submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:

- i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
- d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the appropriate Ohio EPA District Office or local air agency and to the Administrator of U.S. EPA in the following manner in the following manner and with the following content:
- i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
 - ii. Compliance certifications shall include the following:
 - (a) An identification of each term or condition of this permit that is the basis of the certification.
 - (b) The permittee's current compliance status.
 - (c) Whether compliance was continuous or intermittent.
 - (d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
 - (e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
 - iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

13. Permit Shield

- a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.
- b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

14. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

15. Emergencies

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

16. Off Permit Changes

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

- a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition;
- b. The permittee provides contemporaneous written notice of the change to the director and the administrator, except that no such notice shall be required for changes that qualify as insignificant emission levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change;
- c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F);
- d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes; and
- e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit to install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(For further clarification, the permittee can refer to Engineering Guide #63 that is available in their STARSHIP software package.)

17. Compliance Method Requirements

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.

18. Title VI Provisions

If applicable, the permittee shall comply with the standards for recycling and reducing emissions of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

B. State Only Enforceable Section

1. Permit to Install Requirement

Prior to the “installation” or “modification” of any “air contaminant source,” as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

4. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

5. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

6. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforcable Section

None

B. State Only Enforceable Section

1. The following insignificant emissions units are located at this facility.

B003 - Refinery deoderizer high pressure boiler #3
F001 - Coal pile & handling
P020 - Ash handling system B-2
P022 - Meal flowing agent clay receiving & handling
P023 - Railcar receiving scale and garners
P026 - High pressure boiler unit #2
P029 - Transfer of powdered processing aids (3 types)
Z003 - Weedseed tank
Z004 - Cooling tower #1 - plant system
Z005 - Cooling tower #2 - plant system
Z006 - Cooling tower #1 - refinery system
Z007 - Cooling tower #2 - refinery system
Z008 - Hulls tank

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitation and/or control requirements contained within a Permit to Install for the emissions unit.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: BOILER #1 (B001)
Activity Description: BOILER #1, 54.35 MMBTU/HR COAL-FIRED

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
54.35 mmBtu/hr coal-fired boiler #1 with baghouse	OAC rule 3745-17-10	0.24 lb of particulate emissions (PE)/mmBtu of actual heat input
	OAC rule 3745-18-81	3.6 lbs of SO ₂ /mmBtu of actual heat input
	OAC rule 3745-17-07	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range of 0.5 to 4.0 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

- The permittee shall collect or require the coal supplier to collect a representative grab sample of each shipment of coal that is received for burning in this emissions unit. At the end of each calendar month, all of the grab samples which were collected during that calendar month shall be combined into one composite sample for analysis. The permittee shall perform or require the supplier to perform the coal sampling in accordance with ASTM method D2234, Collection of a Gross Sample of Coal.

Each monthly composite sample of coal shall be analyzed for ash content (percent), sulfur content (percent), and heat content (Btu/pound of coal). The analytical methods for ash content, sulfur content, and heat content shall be: ASTM method D3174, Ash in the Analysis of Coal and Coke; ASTM method D3177, Total Sulfur in the Analysis Sample of Coal and Coke or ASTM method D4239, Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods; and ASTM method D2015, Gross Calorific Value of Solid Fuel by the Adiabatic Bomb Calorimeter, ASTM method D3286, Gross Calorific Value of Coal and Coke by the Isothermal Bomb Calorimeter, or ASTM method D1989, Standard Test Method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Isotherm Bomb Calorimeters, respectively. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall maintain records of the total quantity of coal received, the results of the analyses for sulfur content, ash content, heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu) for each calendar month.
3. Monitoring of the boiler shall be performed in accordance with an operation and maintenance plan that is consistent with the manufacturer's recommendations and good engineering practices. Records of inspections and maintenance activities for the boiler shall be maintained in accordance with the operations and maintenance plan for the equipment.
4. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the cause of the visible emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.
5. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.

IV. Reporting Requirements

1. The permittee shall submit, on a quarterly basis, copies of the permittee's or coal supplier's analyses (as received) for each monthly composite sample of coal that was received for burning in the emissions unit. The permittee's or coal supplier's analyses shall document the ash content (percent), sulfur content (percent), and heat content (Btu/pound) for each monthly composite sample. The following information shall also be included with the copies of the permittee's or coal supplier's analyses:
 - a. the total quantity of coal received per month (tons);
 - b. the ash content (percent) for each monthly composite sample;
 - c. the sulfur content (percent) for each monthly composite sample;
 - d. the heat content (Btu/pound) for each monthly composite sample; and
 - e. the sulfur dioxide emissions rate (pounds sulfur dioxide/mmBtu actual heat input) for the coal received each calendar month. This calculation shall be performed in accordance with OAC rule 3745-18-04(G).

These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the coal shipments received during the previous calendar quarters.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:
20% opacity, as a 6-minute average.

Applicable Compliance Method:

Compliance with the visible emission limitation shall be determined in accordance with Test Method 9 as set forth in 40 CFR Part 60, Appendix A ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

- b. Emission Limitation:
0.24 lb of particulate/mmBtu

Applicable Compliance Method:

Compliance with above emission limitations was demonstrated based upon the results of the stack test conducted on September 8 & 9, 1993. Future compliance shall be demonstrated based on the results of the stack testing required in section A.V.2. of this permit.

- c. Emission Limitation:
3.6 lbs of SO₂/mmBtu

Applicable Compliance Method:

Compliance with above emission limitations was demonstrated based upon the results of the stack test conducted on September 8 & 9, 1993. Compliance shall be determined by the information collected in section A.III.2. If required, compliance shall be demonstrated based on the results of the stack testing required in section A.V.2. of this permit.

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

- a. The emission testing shall be conducted within 1 1/2 years after the issuance of the permit, and within 12 months prior to permit renewal.

- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulates and sulfur dioxide.

- c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates:

- i. for particulates, Method 5 of 40 CFR Part 60, Appendix A; and
- ii. for sulfur dioxide, Method 6 of 40 CFR Part 60, Appendix A.

If applicable, alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, SWDO.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent-to-Test" notification to the Ohio EPA, SWDO. The "Intent-to-Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, SWDO's refusal to accept the results of the emission test(s).

Facility Name: **CARGILL, INCORPORATED**

Facility ID: **05-75-01-0160**

Emissions Unit: **BOILER #1 (B001)**

V. Testing Requirements (continued)

Personnel from the Ohio EPA, SWDO shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, SWDO within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, SWDO.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: BOILER #2 (B002)
Activity Description: BOILER #2, 54.35 MMBTU/HR COAL-FIRED

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
54.35 mmBtu/hr coal-fired boiler #2 with baghouse	OAC rule 3745-17-10	0.24 lb of particulate emissions (PE)/mmBtu of actual heat input
	OAC rule 3745-18-81	3.6 lbs of SO ₂ /mmBtu of actual heat input
	OAC rule 3745-17-07	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range of 0.5 to 4.0 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

- The permittee shall collect or require the coal supplier to collect a representative grab sample of each shipment of coal that is received for burning in this emissions unit. At the end of each calendar month, all of the grab samples which were collected during that calendar month shall be combined into one composite sample for analysis. The permittee shall perform or require the supplier to perform the coal sampling in accordance with ASTM method D2234, Collection of a Gross Sample of Coal.

Each monthly composite sample of coal shall be analyzed for ash content (percent), sulfur content (percent), and heat content (Btu/pound of coal). The analytical methods for ash content, sulfur content, and heat content shall be: ASTM method D3174, Ash in the Analysis of Coal and Coke; ASTM method D3177, Total Sulfur in the Analysis Sample of Coal and Coke or ASTM method D4239, Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods; and ASTM method D2015, Gross Calorific Value of Solid Fuel by the Adiabatic Bomb Calorimeter, ASTM method D3286, Gross Calorific Value of Coal and Coke by the Isothermal Bomb Calorimeter, or ASTM method D1989, Standard Test Method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Isotherm Bomb Calorimeters, respectively. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall maintain records of the total quantity of coal received, the results of the analyses for sulfur content, heat content, ash content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu) for each calendar month.
3. Monitoring of the boiler shall be performed in accordance with an operation and maintenance plan that is consistent with the manufacturer's recommendations and good engineering practices. Records of inspections and maintenance activities for the boiler shall be maintained in accordance with the operations and maintenance plan for the equipment.
4. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the cause of the visible emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.
5. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.

IV. Reporting Requirements

1. The permittee shall submit, on a quarterly basis, copies of the permittee's or coal supplier's analyses (as received) for each monthly composite sample of coal that was received for burning in the emissions unit. The permittee's or coal supplier's analyses shall document the ash content (percent), sulfur content (percent), and heat content (Btu/pound) for each monthly composite sample. The following information shall also be included with the copies of the permittee's or coal supplier's analyses:
 - a. the total quantity of coal received per month (tons);
 - b. the ash content (percent) for each monthly composite sample;
 - c. the sulfur content (percent) for each monthly composite sample;
 - d. the heat content (Btu/pound) for each monthly composite sample; and
 - e. the sulfur dioxide emissions rate (pounds sulfur dioxide/mmBtu actual heat input) for the coal received each calendar month. This calculation shall be performed in accordance with OAC rule 3745-18-04(G).

These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the coal shipments received during the previous calendar quarters.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:
20% opacity, as a 6-minute average.

Applicable Compliance Method:

Compliance with the visible emission limitations shall be determined in accordance with Test Method 9 as set forth in 40 CFR Part 60, Appendix A ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

- b. Emission Limitation:
0.24 lb of particulate/mmBtu

Applicable Compliance Method:

Compliance with above emission limitations was demonstrated based upon the results of the stack test conducted on November 24, 1993. Future compliance shall be demonstrated based on the results of the stack testing required in section A.V.2. of this permit.

- c. Emission Limitation:
3.6 lbs of SO₂/mmBtu

Applicable Compliance Method:

Compliance with above emission limitations was demonstrated based upon the results of the stack test conducted on September 8 & 9, 1993. Compliance shall be determined by the information collected in section A.III.2. If required, compliance shall be demonstrated based on the results of the stack testing required in section A.V.2. of this permit.

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

- a. The emission testing shall be conducted within 1 1/2 years after the issuance of the permit, and within 12 months prior to permit renewal.

- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulates and sulfur dioxide.

- c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates:

- i. for particulates, Method 5 of 40 CFR Part 60, Appendix A; and
- ii. for sulfur dioxide, Method 6 of 40 CFR Part 60, Appendix A.

If applicable, alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, SWDO.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent-to-Test" notification to the Ohio EPA, SWDO. The "Intent-to-Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, SWDO's refusal to accept the results of the emission test(s).

V. Testing Requirements (continued)

Personnel from the Ohio EPA, SWDO shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, SWDO within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, SWDO.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: HYDROGEN PLANT (B005)

Activity Description: HYDROGEN PLANT, INCLUDING 21.86 MMBTU/HR NG-FIRED REACTOR, HYDROGEN STORAGE

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Hydrogen plant, including 21.86 mmBtu/hr natural gas-fired boiler, hydrogen storage	OAC rule 3745-17-10(B)(1)	0.020 lb of particulates/mmBtu of actual heat input
	OAC rule 3745-17-07	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	40 CFR Part 60, Subpart Dc	Exempt See section A.II.1. below.
	OAC rule 3745-18-06	Exempt, see section A.II.1. below.

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The permittee shall burn only natural gas in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

- For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

- The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

- 1.a.** Compliance with the emission limitation(s) in section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation:

0.020 lb of particulate/million Btu of actual heat input

Applicable Compliance Method:

The permittee may demonstrate compliance with this emission limitation by multiplying the maximum hourly natural gas combustion rate (mmcf/hr) by the appropriate AP-42 emission factor from Table 1.4-2, revised 3/98 (1.9 lbs of particulate/million cubic feet), then dividing by the maximum heat input to the boiler (21.86 mmBtu/hr). If required, compliance shall be demonstrated by emission testing using USEPA Method 5 (40 CFR Part 60, Appendix A) and the methods and procedures in OAC rule 3745-17-03(B)(9).

- 1.b.** Emission Limitation:
20% opacity as a 6-minute average.

Applicable Compliance Method:

Compliance with the visible emission limitation shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Hydrogen plant, including 21.86 mmBtu/hr natural gas-fired boiler, hydrogen storage	OAC rule 3745-31-05 (PTI 05-7314)	0.0006 lb of sulfur dioxide (SO ₂)/mmBtu of actual heat input 0.14 lb of nitrogen oxides (NO _x)/mmBtu of actual heat input 0.035 lb of carbon monoxide (CO)/mmBtu of actual heat input 0.003 lb of organic compounds (OC)/mmBtu of actual heat input

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1.a. Compliance with the emission limitations in Section B.I.1. of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:
0.0006 lb of SO₂/mmBtu of actual heat input

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum hourly natural gas combustion rate (mmcf/hr) by the appropriate AP-42 emission factor from Table 1.4-2, revised 3/98 (0.6 pound of SO₂/million cubic feet), then dividing by the maximum heat input to the boiler (21.86 mmBtu/hr).

b. Emission Limitation:
0.14 lb of NO_x/mmBtu of actual heat input

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum hourly natural gas combustion rate (mmcf/hr) by the appropriate AP-42 emission factor from Table 1.4-1, revised 3/98 (100 pounds of NO_x/million cubic feet), then dividing by the maximum heat input to the boiler (21.86 mmBtu/hr).

c. Emission Limitation:
0.035 lb CO/mmBtu of actual heat input

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum hourly natural gas combustion rate (mmcf/hr) by the appropriate AP-42 emission factor from Table 1.4-1, revised 3/98 (84 pounds of CO/million cubic feet), then dividing by the maximum heat input to the boiler (21.86 mmBtu/hr).

d. Emission Limitation:
0.003 lb OC/mmBtu of actual heat input.

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum hourly natural gas combustion rate (mmcf/hr) by the appropriate AP-42 emission factor from Table 1.4-2, revised 3/98 (11.0 pounds of OC/million cubic feet), then dividing by the maximum heat input to the boiler (21.86 mmBtu/hr).

If required, compliance with the above-mentioned emission limitations shall be demonstrated by emission testing using the USEPA test methods listed in 40 CFR Part 60, Appendix A.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: BOILER #4 (B006)
Activity Description: BOILER #4, 62 MMBTU/HR NG-FIRED

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
62 mmBtu/hr NG-fired boiler #4	OAC rule 3745-17-10(B)(1)	0.020 pound of particulates/mmBtu of actual heat input
	OAC rule 3745-17-07	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	40 CFR Part 60, Subpart Dc	Exempt, see section A.II.1. below.
	OAC rule 3745-18-06	Exempt, see section A.II.1. below.

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The permittee shall burn only natural gas in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

- For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

- The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

V. Testing Requirements

- 1.a. Compliance with the emission limitations in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:

0.020 pound of particulates/million Btu of actual heat input

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum hourly natural gas combustion rate (mmcf/hr) by the appropriate AP-42 emission factor from Table 1.4-2, revised 3/98 (1.9 pounds of particulates/million cubic feet), and dividing by the maximum heat input to the boiler (62 mmBtu/hr).

If required, compliance shall be demonstrated by emission testing using USEPA Test Method 5 (40 CFR Part 60, Appendix A).

- 1.b. Emission Limitation:
20% opacity as a 6-minute average.

Applicable Compliance Method:

Compliance with the visible emission limitation shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
62 mmBtu/hr natural gas-fired boiler #4	OAC rule 3745-31-05 (PTI 05-7314)	0.0006 lb of sulfur dioxide (SO ₂)/mmBtu of actual heat input 0.14 lb of nitrogen oxides (NO _x)/mmBtu of actual heat input 0.035 lb of carbon monoxide (CO)/mmBtu of actual heat input 0.003 lb of organic compounds (OC)/mmBtu of actual heat input

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall employ low NO_x burners.

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1.a. Compliance with the emission limitations in Section B.I.1. of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:
0.0006 lb of SO₂/mmBtu of actual heat input

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum hourly natural gas combustion rate (mmcf/hr) by the appropriate AP-42 emission factor from Table 1.4-2, revised 3/98 (0.6 pound of SO₂/million cubic feet), then dividing by the maximum heat input to the boiler (21.86 mmBtu/hr).

b. Emission Limitation:
0.14 lb of NO_x/mmBtu of actual heat input

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum hourly natural gas combustion rate (mmcf/hr) by the appropriate AP-42 emission factor from Table 1.4-1, revised 3/98 (100 pounds of NO_x/million cubic feet), then dividing by the maximum heat input to the boiler (21.86 mmBtu/hr).

c. Emission Limitation:
0.035 lb CO/mmBtu of actual heat input

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum hourly natural gas combustion rate (mmcf/hr) by the appropriate AP-42 emission factor from Table 1.4-1, revised 3/98 (84 pounds of CO/million cubic feet), then dividing by the maximum heat input to the boiler (21.86 mmBtu/hr).

d. Emission Limitation:
0.003 lb OC/mmBtu of actual heat input.

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum hourly natural gas combustion rate (mmcf/hr) by the appropriate AP-42 emission factor from Table 1.4-2, revised 3/98 (11.0 pounds of OC/million cubic feet), then dividing by the maximum heat input to the boiler (21.86 mmBtu/hr).

If required, compliance with the above-mentioned emission limitations shall be demonstrated by emission testing using the USEPA test methods listed in 40 CFR Part 60, Appendix A.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: SCALPING (P004)

Activity Description: SCALPING - SHARED CD AND STACK WITH P024

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Scalping EL-5, with use of enclosure and baghouse	40 CFR Part 60, Subpart DD	0% opacity
	OAC rule 3745-17-11	57.4 lbs/hr of particulates
	OAC rule 3745-17-07	See section A.I.2.a below.

2. Additional Terms and Conditions

- 2.a. The visible particulate emission required by OAC rule 3745-17-07 is less stringent than the visible particulate emission limitation required by 40 CFR Part 60, Subpart DD.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 10 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the cause of the visible emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports to the Director (the Ohio EPA, Southwest District Office) that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above in section A.II.1.

IV. Reporting Requirements (continued)

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:

- 1.a. Emission Limitation:
0% opacity

Applicable Compliance Method:

Compliance with the visible emission limitation shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

- 1.b. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirement:

- i. The emission testing shall be conducted within 1 1/2 years after issuance of the permit, and within 12 months prior to permit renewal.
- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulates.
- iii. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: Method 5 of 40 CFR Part 60, Appendix A.
- iv. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Southwest District Office.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent-to-Test" notification to the Ohio EPA, SWDO. The "Intent-to-Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, SWDO's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, SWDO shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, SWDO within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, SWDO.

- 1.c. Emission Limitation:
57.4 lbs of particulates/hr

Applicable Compliance Method:

Compliance with the emission limitation shall be determined by emission testing performed in accordance with OAC rule 3745-17-03.

Facility Name: **CARGILL, INCORPORATED**

Facility ID: **05-75-01-0160**

Emissions Unit: **SCALPING (P004)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Scalping EL-5 with use of enclosure and baghouse	OAC rule 3745-31-05 (PTI 05-7365)	0.54 lb/hr of particulates

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The amount of soybean material processed through this emissions unit shall not exceed 4,320 tons per day.
2. The amount of soybeans processed through this emissions unit shall not exceed 945,000 tons per rolling, 12-month period.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the total quantity of grain processed through this emissions unit, in tons.
2. The permittee shall maintain monthly records of the following information:
 - a. the tons of soybeans processed; and
 - b. the rolling, 12-month summation of the tons of soybeans processed.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any daily and/or monthly record that shows a deviation of the allowable grain processing rates from sections B.II.1. and 2. above. The notification shall include a copy of such record(s) and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

V. Testing Requirements

1. Compliance with the emission limitation in Section B.I.1. of these terms and conditions shall be determined in accordance with the following method:

Emission Limitation:
0.54 lb/hr of particulates

Applicable Compliance Method:
Compliance shall be demonstrated by the stack tests conducted in accordance with section A.V.1.b.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: HEADHOUSE (P005)
Activity Description: HEADHOUSE

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Headhouse-EL-4, use of enclosure with baghouse	40 CFR Part 60, Subpart DD	0% opacity
	OAC rule 3745-17-11	70.6 lbs/hr of particulates
	OAC rule 3745-17-07	See section A.I.2.a. below.

2. Additional Terms and Conditions

- 2.a. The visible particulate emission required by OAC rule 3745-17-07 is less stringent than the visible particulate emission limitation required by 40 CFR Part 60, Subpart DD.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 10 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the cause of the visible emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports to the Director (the Ohio EPA, Southwest District Office) that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above in section A.II.1.

IV. Reporting Requirements (continued)

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:
 - A. Emission Limitation:
0% opacity
 - Applicable Compliance Method:
Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.
2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirement:
 - i. The emission testing shall be conducted within 1 1/2 year after issuance of the permit, and within 12 months prior to permit renewal.
 - ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulates.
 - iii. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: Method 5 of 40 CFR Part 60, Appendix A.
 - iv. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Southwest District Office. Compliance shall be demonstrated using Method 5, 40 CFR Part 60, Appendix A.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent-to-Test" notification to the Ohio EPA, SWDO. The "Intent-to-Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, SWDO's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, SWDO shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, SWDO within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, SWDO.

3. Emission Limitation:
70.6 lbs of particulates/hr

Applicable Compliance Method:
Compliance with the emission limitation shall be determined by emission testing performed in accordance with OAC rule 3745-17-03.

Facility Name: **CARGILL, INCORPORATED**

Facility ID: **05-75-01-0160**

Emissions Unit: **HEADHOUSE (P005)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Headhouse-4 - use of enclosure with baghouse	OAC rule 3745-31-05 (PTI 05-7365)	3.00 lbs/hr of particulates

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The amount of soybean material processed through this emissions unit shall not exceed 13,800 tons per day.

III. Monitoring and/or Record Keeping Requirements

- The permittee shall maintain daily records of the total quantity of grain processed through this emissions unit, in tons.

IV. Reporting Requirements

- The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any daily record that shows a deviation of the allowable grain processing rate from section B.II.1. above. The notification shall include a copy of such record(s) and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

V. Testing Requirements

- Compliance with the emission limitation in Section B.I.1. of these terms and conditions shall be determined in accordance with the following method:

Emission Limitation:
3 lbs/hr of particulates

Applicable Compliance Method:
Compliance shall be demonstrated by the stack tests conducted in accordance with section A.V.2.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: COLUMN GRAIN DRYER #1 (P006)
Activity Description: COLUMN GRAIN DRYER #1

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Grain dryer EL-6, with enclosure	OAC rule 3745-17-07	See section A.I.2.a. below.
	40 CFR Part 60, Subpart DD	See section A.I.2.b. below. Visible emissions (VE) shall not exceed 0% opacity.
	OAC rule 3745-17-11	57.4 lbs/hr of particulates

2. Additional Terms and Conditions

- 2.a. The visible particulate emission required by OAC rule 3745-17-07 is equal to or less stringent than the visible particulate emission limitation required by 40 CFR Part 60, Subpart DD.
- 2.b. The permittee shall maintain dryer plate perforations less than or equal to 0.094 inch in diameter in this emissions unit.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the cause of the visible emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:
0% opacity

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

- b. Emission Limitation:
57.4 lbs/hr of particulates

Applicable Compliance Method:

Compliance with the emission limitation shall be determined by emission testing performed in accordance with OAC rule 3745-17-03.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Grain dryer EL-6, with enclosure	OAC rule 3745-31-05 (PTI 05-7365)	21.6 lbs/hr of particulates (combined emissions from emissions units P006 and P034)

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The amount of soybean material processed through this emissions unit shall not exceed 4,320 tons per day.

III. Monitoring and/or Record Keeping Requirements

- The permittee shall maintain daily records of the total quantity of grain processed through the dryer, in tons.

IV. Reporting Requirements

- The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable grain processing rate from section B.II.1. above. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

V. Testing Requirements

- Compliance with the emission limitation in Section B.I.1. of these terms and conditions shall be determined in accordance with the following method:

Emission Limitation:
21.6 lbs/hr of particulates

Applicable Compliance Method:
Compliance with the emission limitation shall be determined by emission testing performed in accordance with OAC rule 3745-17-03.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Charge Handling (F022)
Activity Description: Handling of furnace charges

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Charge Handling	OAC rule 3745-17-07(B)(1)	See A.I.2.a.
	OAC rule 3745-17-08(B)	See A.I.2.b.

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a three-minute average.
- 2.b The permittee shall employ reasonably available control measures to minimize or eliminate visible emissions of fugitive dust. Currently, there are no reasonably available control measures defined form this emissions unit.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive emissions from this emissions unit. The presence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any abnormal visible emission incident; and
 - e. any corrective actions taken to eliminate the abnormal visible emissions.

Facility Name: **Cast-Fab Technologies, Inc.**

Facility ID: **14-31-07-3342**

Emissions Unit: **Charge Handling (F022)**

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible fugitive emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the fugitive visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(3).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

**Operations, Property,
and/or Equipment**

**Applicable Rules/
Requirements**

**Applicable Emissions
Limitations/Control
Measures**

Charge Handling

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: SECONDARY DEHULLING (#2 DUST COLLECTOR) (P008)
Activity Description: SECONDARY DEHULLING (#2 DUST COLLECTOR)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Secondary dehulling (P008) vents to building interior with baghouse	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11	13.6 lbs of particulates/hr

- Additional Terms and Conditions**
None

II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range of 2 to 10 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

- The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
- The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - the color of the emissions;
 - the cause of the visible emissions;
 - the total duration of any visible emission incident; and
 - any corrective actions taken to eliminate the visible emissions.
- The permittee shall maintain daily records of: the total quantity of grain processed through this emissions unit, in tons.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports to the Director (the Ohio EPA, Southwest District Office) that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above in section A.II.1.
2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
20% opacity, as a 6-minute average

Applicable Compliance Method:
Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.
 - b. Emission Limitation:
13.6 lbs of particulate/hr

Applicable Compliance Method:
Compliance shall be determined by using the, AP-42, Table 9.11.1-1 (revised 11/95), emission factor of 0.36 lb of particulates/ton of soybean processed or by emission testing performed in accordance with OAC rule 3745-17-03.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: PRIMARY DEHULLING (#3 & #4 DUST COLLECTORS) (P009)
Activity Description: PRIMARY DEHULLING (#3 & #4 DUST COLLECTORS)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Primary Dehulling (P009)	OAC rule 3745-17-11 OAC rule 3745-17-07	53.3 lbs/hr of particulates Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.

2. **Additional Terms and Conditions**
None

II. Operational Restrictions

1. The pressure drop across the baghouses shall be maintained within the range of 2 to 10 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the cause of the visible emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports to the Director (the Ohio EPA, Southwest District Office) that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above in section A.II.1.

IV. Reporting Requirements (continued)

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:

- 1.a. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

- i. The emission testing shall be conducted within 1 1/2 years after the issuance of the permit, and within 12 months prior to permit renewal.

- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulates.

- iii. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: Method 5 of 40 CFR Part 60, Appendix A.

If applicable, alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, SWDO.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, SWDO. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, SWDO's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, SWDO shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, SWDO within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, SWDO.

- 1.b. Emission Limitation:
20% opacity as a 6-minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

- 1.c. Emission Limitation:
53.3 lbs of particulates/hr

Applicable Compliance Method:

Compliance with the emission limitation shall be determined by emission testing performed in accordance with OAC rule 3745-17-03.

Facility Name: **CARGILL, INCORPORATED**
Facility ID: **05-75-01-0160**
Emissions Unit: **PRIMARY DEHULLING (#3 & #4 DUST COLLECTORS) (P**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Primary Dehulling (P009), with enclosures and baghouse	OAC rule 3745-31-05 (PTI 05-7365)	0.41 lb/hr of particulate, 10% opacity

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The amount of soybean material processed through this emissions unit shall not exceed 2,928 tons per day.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the total quantity of grain processed through this emissions unit, in tons.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any daily record that shows a deviation of the allowable grain processing rate from section B.II.1. above. The notification shall include a copy of such record(s) and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

V. Testing Requirements

1. Compliance with the emission limitations in Section B.I.1. of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:
0.41 lb/hr of particulate.

Applicable Compliance Method:
Compliance shall be demonstrated by the stack tests conducted in accordance with section A.V.1.a.

b. Emission Limitation:
10% opacity

Applicable Compliance Method:
Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: FLAKERS (P010)
Activity Description: FLAKER

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Flakers (P010) with cyclones	OAC rule 3745-17-07	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11	52.5 lbs/hr of particulates

2. **Additional Terms and Conditions**
 None

II. Operational Restrictions
 None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the cause of the visible emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

- 1.a.** Compliance with the emission limitations in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:
20% opacity, as a 6-minute average.

Applicable Compliance Method:
Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

- 1.b.** The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

i. The emission testing shall be conducted within 1 1/2 years after the issuance of the permit, and within 12 months prior to permit renewal.

ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulates.

iii. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: Method 5 of 40 CFR Part 60, Appendix A

If applicable, alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, SWDO.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent-to-Test" notification to the Ohio EPA, SWDO. The "Intent-to-Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, SWDO's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, SWDO shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, SWDO within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, SWDO.

- 1.c.** Emission Limitation:
52.5 lbs of particulates/hr

Applicable Compliance Method:
Compliance with the emission limitation shall be determined by emission testing performed in accordance with OAC rule 3745-17-03.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Flakers (P010) with cyclones	OAC rule 3745-31-05 (PTI 05-7365)	3.32 lbs/hr of particulates

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The amount of soybean material processed through this emissions unit shall not exceed 2,716 tons per day.

III. Monitoring and/or Record Keeping Requirements

- The permittee shall maintain daily records of the total quantity of grain processed through this emissions unit, in tons.

IV. Reporting Requirements

- The permittee shall notify the Director (the Ohio EPA, Southwest District Office) in writing of any daily record that shows a deviation of the allowable grain processing rate specified above in section B.II.1. above. The notification shall include a copy of such record(s) and shall be sent to the Director (the Ohio EPA, Southwest District Office) within 45 days after the deviation occurs.

V. Testing Requirements

- Compliance with the emission limitation in Section B.I.1. of these terms and conditions shall be determined in accordance with the following method:

Emission Limitation:
3.32 lbs/hr of particulates

Applicable Compliance Method:
Compliance shall be demonstrated by the stack tests conducted in accordance with section A.V.1.b.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: HULL AND POD GRINDING (P011)
Activity Description: HULL AND POD GRINDING

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Hull and POD grinding (P011) with baghouse	OAC rule 3745-17-11	29.2 lbs/hr of particulates
	OAC rule 3745-17-07	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range of 2 to 10 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

- The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on daily basis.
- The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - the color of the emissions;
 - the cause of the visible emissions;
 - the total duration of any visible emission incident; and
 - any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

- The permittee shall submit pressure drop deviation (excursion) reports to the Director (the Ohio EPA, Southwest District Office) that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above in section A.II.1.

IV. Reporting Requirements (continued)

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:

- 1.a. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

- i. The emission testing shall be conducted within 1 1/2 years after the issuance of the permit, and within 12 months prior to permit renewal.

- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulates.

- iii. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: Method 5 of 40 CFR Part 60, Appendix A.

If applicable, alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, SWDO.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent-to-Test" notification to the Ohio EPA, SWDO. The "Intent-to-Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, SWDO's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, SWDO shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, SWDO within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, SWDO.

- 1.b. Emission Limitation:
20% opacity, as a 6-minute average

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

- 1.c. Emission Limitation:
29.2 lbs of particulates/hr

Applicable Compliance Method:

Compliance with the emission limitation shall be determined by emission testing performed in accordance with OAC rule 3745-17-03.

Facility Name: **CARGILL, INCORPORATED**
Facility ID: **05-75-01-0160**
Emissions Unit: **HULL AND POD GRINDING (P011)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Hull and POD grinding (P011) with baghouse	OAC rule 3745-31-05 (PTI 05-7365)	0.02 lb/hr of particulates, 10% opacity

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The amount of soybean material processed through this emissions unit shall not exceed 194 tons per day.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the total quantity of grain processed through this emissions unit, in tons.

IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Southwest District Office) in writing of any daily record that shows a deviation of the allowable grain processing rate specified above in section B.II.1. above. The notification shall include a copy of such record(s) and shall be sent to the Director (the Ohio EPA, Southwest District Office) within 45 days after the deviation occurs.

V. Testing Requirements

1. Compliance with the emission limitations in Section B.I.1. of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:
0.02 lb/hr of particulates

Applicable Compliance Method:
Compliance shall be demonstrated by the stack tests conducted in accordance with section A.V.1.a.

b. Emission Limitation:
10% opacity

Applicable Compliance Method:
Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: CONDITIONER (P012)
Activity Description: CONDITIONER

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Conditioner (P012) with cyclone	OAC rule 3745-17-07	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11	52.5 lbs/hr of particulates

2. **Additional Terms and Conditions**
 None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the cause of the visible emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

- 1.a.** Compliance with the emission limitations in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:
20% opacity, as a 6-minute average

Applicable Compliance Method:
Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

- 1.b.** The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

i. The emission testing shall be conducted within 1 1/2 years after the issuance of the permit, and within 12 months prior to permit renewal.

ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulates.

iii. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: Method 5 of 40 CFR Part 60, Appendix A.

If applicable, alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, SWDO.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent-to-Test" notification to the Ohio EPA, SWDO. The "Intent-to-Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, SWDO's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, SWDO shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, SWDO within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, SWDO.

- 1.c.** Emission Limitation:
52.5 lbs of particulates/hr

Applicable Compliance Method:
Compliance with the emission limitation shall be determined by emission testing performed in accordance with OAC rule 3745-17-03.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Conditioner (P012) with cyclone	OAC rule 3745-31-05 (PTI 05-7365)	2.3 lbs/hr of particulates

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The amount of soybean material processed through this emissions unit shall not exceed 2,716 tons per day.

III. Monitoring and/or Record Keeping Requirements

- The permittee shall maintain daily records of the total quantity of grain processed through this emissions unit, in tons.

IV. Reporting Requirements

- The permittee shall notify the Director (the Ohio EPA, Southwest District Office) in writing of any daily record that shows a deviation of the allowable grain processing rate specified above in section B.II.1. above. The notification shall include a copy of such record(s) and shall be sent to the Director (the Ohio EPA, Southwest District Office) within 45 days after the deviation occurs.

V. Testing Requirements

- Compliance with the emission limitation in Section B.I.1. of these terms and conditions shall be determined in accordance with the following method:

Emission Limitation:
2.3 lbs/hr of particulates

Applicable Compliance Method:
Compliance shall be demonstrated by the stack tests conducted in accordance with section A.V.1.b.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: MEAL GRINDING & SIFTING (P015)
Activity Description: MEAL GRINDING & SIFTING

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Meal grinding & sifting (P015) controlled with a baghouse	OAC rule 3745-17-07	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule. 50.3 lbs/hr of particulates
	OAC rule 3745-17-11	

- Additional Terms and Conditions**
None

II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range of 2 to 10 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

- The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
- The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - the color of the emissions;
 - the cause of the visible emissions;
 - the total duration of any visible emission incident; and
 - any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

- The permittee shall submit pressure drop deviation (excursion) reports to the Director (the Ohio EPA, Southwest District Office) that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above in section A.II.2.

IV. Reporting Requirements (continued)

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:

- 1.a. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

- i. The emission testing shall be conducted within 1 1/2 years after the issuance of the permit, and within 12 months prior to permit renewal.

- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulates.

- iii. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: Method 5 of 40 CFR Part 60, Appendix A.

If applicable, alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, SWDO.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent-to-Test" notification to the Ohio EPA, SWDO. The "Intent-to-Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, SWDO's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, SWDO shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, SWDO within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, SWDO.

- 1.b. Emission Limitation:
20% opacity, as a 6-minute average

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

- 1.c. Emission Limitation:
50.3 lbs of particulates/hr

Applicable Compliance Method:

Compliance with the emission limitation shall be determined by emission testing performed in accordance with OAC rule 3745-17-03.

Facility Name: **CARGILL, INCORPORATED**
Facility ID: **05-75-01-0160**
Emissions Unit: **MEAL GRINDING & SIFTING (P015)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Meal grinding & sifting (P015) controlled with a baghouse	OAC rule 3745-31-05 (PTI 05-7365)	0.19 lb/hr of particulates, 10% opacity

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The amount of soybean material processed through this emissions unit shall not exceed 2,183 tons per day.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the total quantity of grain processed through this emissions unit, in tons.

IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Southwest District Office) in writing of any daily record that shows a deviation of the allowable grain processing rate specified above in section B.II.1. above. The notification shall include a copy of such record(s) and shall be sent to the Director (the Ohio EPA, Southwest District Office) within 45 days after the deviation occurs.

V. Testing Requirements

1. Compliance with the emission limitations in Section B.I.1. of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:
0.19 lb/hr of particulates

Applicable Compliance Method:
Compliance shall be demonstrated by the stack tests conducted in accordance with section A.V.1.a.

b. Emission Limitation:
10% opacity

Applicable Compliance Method:
Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: MEAL SCREENING (P016)

Activity Description: MEAL LOADOUT SCREEN AND SCALE HOPPER (DUST COLLECTOR 871)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Meal loadout screen and scale hopper (dust collector 871)	OAC rule 3745-17-07	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule. 58.5 lbs/hr of particulates
	OAC rule 3745-17-11	

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 10 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the cause of the visible emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports to the Director (the Ohio EPA, Southwest District Office) that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above in section A.II.

IV. Reporting Requirements (continued)

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:

- 1.a. Emission Limitation:
20% opacity, as a 6-minute average

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

- 1.b. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

- i. The emission testing shall be conducted within 1 1/2 years after the issuance of the permit, and within 12 months prior to permit renewal.

- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulates.

- iii. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: Method 5 of 40 CFR Part 60, Appendix A.

If applicable, alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, SWDO.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent-to-Test" notification to the Ohio EPA, SWDO. The "Intent-to-Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, SWDO's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, SWDO shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, SWDO within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, SWDO.

- 1.c. Emission Limitation:
58.5 lbs of particulates/hr

Applicable Compliance Method:

Compliance with the emission limitation shall be determined by emission testing performed in accordance with OAC rule 3745-17-03.

Facility Name: **CARGILL, INCORPORATED**
Facility ID: **05-75-01-0160**
Emissions Unit: **MEAL SCREENING (P016)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Meal loadout screen and scale hopper (dust collector 871)	OAC rule 3745-31-05	1.13 lb/hr of particulates(PE) 2.98 TPY of PE.

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The amount of soybean material processed through this emissions unit shall not exceed 4,800 tons per day.

III. Monitoring and/or Record Keeping Requirements

- The permittee shall maintain daily records of the total quantity of grain processed through this emissions unit, in tons.

IV. Reporting Requirements

- The permittee shall notify the Director (the Ohio EPA, Southwest District Office) in writing of any daily record that shows a deviation of the allowable grain processing rate specified above in section B.II.1. above. The notification shall include a copy of such record(s) and shall be sent to the Director (the Ohio EPA, Southwest District Office) within 45 days after the deviation occurs.

V. Testing Requirements

- Compliance with the emission limitations in Section B.I.1. of these terms and conditions shall be determined in accordance with the following method:

Emission Limitation:
1.13 lb/hr of particulates.

Applicable Compliance Method:
Compliance shall be demonstrated by the stack tests conducted in accordance with section A.V.1.b.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: VEGETABLE OIL EXTRACTION (P018)
Activity Description: VEGETABLE OIL EXTRACTION - INCLUDES ALL HEXANE EMISSIONS PRIOR TO REFINERY

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Vegetable oil extraction (P018)	OAC rule 3745-21-07(G)	See section A.II.1. below.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall not employ any photochemically reactive materials in this emissions unit, as defined in OAC rule 3745-21-01(C)(5).

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record each month the company identification for each liquid organic material employed and documentation indicating whether or not the liquid organic material is a photochemically reactive material, as defined by OAC 3745-21-01(C)(5).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports to the Director (the Ohio EPA, Southwest District Office) that identify all periods during which any photochemically reactive material was employed in this emissions unit.

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Vegetable oil extraction (P018)	OAC rule 3745-31-05 (PTI 05-7365)	See section B.I.2. below.

2. Additional Terms and Conditions

- 2.a. 50 tons/month; and
340 tons per year (based on a rolling, 12-month summation) for the OC emissions from emissions units P015, P016, P018, P030, P032, P033, P901, P902, T002 and T003, combined.
- 2.b. The total hexane losses shall not exceed 0.04%, by weight, of soybean throughput, based on a rolling, 12-month average.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information for the material processed in the soybean crushing operation:
 - a. the amount of hexane in the inventory at the beginning of each month, in tons;
 - b. the amount of hexane added to the inventory during each month, in tons;
 - c. the amount of hexane in the inventory at the end of each month, in tons;
 - d. the total amount of hexane lost from the hexane inventory for the month, in tons $\{(a - c) + b\}$;
 - e. the total amount of hexane lost during the past 12 months, in tons (summation of "d" for the previous 12 months);
 - f. the total amount of soybeans processed, in tons;
 - g. the total amount of soybeans processed during the past 12 months, in tons (summation of "f" for the previous 12 months); and
 - h. the rolling, 12-month average hexane loss, in percent by weight of soybeans processed $(e/g \times 100\%)$.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which actual OC emissions exceed the monthly and/or rolling 12-month emission limitations and/or the total hexane loss exceeds the rolling 12-month average, % by weight limitation.
2. The permittee shall submit annual reports which specify the total OC emissions from the above-mentioned emissions units for the previous calendar year (i.e., January through December). These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emission limitation in Section B.I.1. of these terms and conditions shall be determined in accordance with the following method:

Emission Limitation:

50 tons/month of combined VOC emissions and 340 tons per rolling 12-month average. The hexane losses shall not exceed 0.04%, by weight, of soybean throughput, based on a rolling 12-month average.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of B.III.1.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: ASPIRATOR (P024)

Activity Description: ASPIRATOR - SHARED CD AND STACK WITH P004

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Aspirator (P024) with cyclone and baghouse	OAC rule 3745-17-07	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule. 57.4 lbs/hr of particulates
	OAC rule 3745-17-11	

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range of 2 to 10 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

- The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
- The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - the color of the emissions;
 - the cause of the visible emissions;
 - the total duration of any visible emission incident; and
 - any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

- The permittee shall submit pressure drop deviation (excursion) reports to the Director (the Ohio EPA, Southwest District Office) that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above in section A.II.

IV. Reporting Requirements (continued)

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - i. The emission testing shall be conducted within 1 1/2 years after the issuance of the permit, and within 12 months prior to permit renewal.
 - ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulates.
 - iii. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: Method 5 of 40 CFR Part 60, Appendix A.

If applicable, alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, SWDO.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent-to-Test" notification to the Ohio EPA, SWDO. The "Intent-to-Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, SWDO's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, SWDO shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, SWDO within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, SWDO.

- 1.b. Emission Limitation:
20% opacity, as a 6-minute average

Applicable Compliance Determination:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

- 1.c. Emission Limitation:
57.4 lbs of particulates/hr

Applicable Compliance Method:

Compliance with the emission limitation shall be determined by emission testing performed in accordance with OAC rule 3745-17-03.

Facility Name: **CARGILL, INCORPORATED**
Facility ID: **05-75-01-0160**
Emissions Unit: **ASPIRATOR (P024)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Aspirator (P024) with cyclone and baghouse	OAC rule 3745-31-05 (PTI 05-7365)	0.04 lb/hr of particulates, 10% opacity

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The amount of soybean material processed through this emissions unit shall not exceed 4,320 tons per day.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the total quantity of grain processed through this emissions unit, in tons.

IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Southwest District Office) in writing of any daily record that shows a deviation of the allowable grain processing rate specified above in section B.II.1. above. The notification shall include a copy of such record(s) and shall be sent to the Director (the Ohio EPA, Southwest District Office) within 45 days after the deviation occurs.

V. Testing Requirements

1. Compliance with the emission limitations in Section B.I.1. of these terms and conditions shall be determined in accordance with the following methods:

- 1.a. Emission Limitation:
0.04 lb/hr of particulates.

Applicable Compliance Method:
Compliance shall be demonstrated by the stack tests conducted in accordance with section A.V.1.a.

- 1.b. Emission Limitation:
10% opacity

Applicable Compliance Determination:
Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: DRYER/COOLER EX-2 (P030)
Activity Description: DRYER/COOLER EX-2

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Dryer/cooler EX-2 (P030)	OAC rule 3745-17-07	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule. 53.3 lbs/hr of particulates
	OAC rule 3745-17-11	

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the cause of the visible emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

- 1.a.** Emissions Limitation:
20% opacity, as a 6-minute average

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

- 1.b.** The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

i. The emission testing shall be conducted within 1 1/2 years after the issuance of the permit, and within 12 months prior to permit renewal.

ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulates.

iii. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: Method 5 of 40 CFR Part 60, Appendix A.

If applicable, alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, SWDO.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent-to-Test" notification to the Ohio EPA, SWDO. The "Intent-to-Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, SWDO's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, SWDO shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, SWDO within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, SWDO.

- 1.c.** Emission Limitation:
53.3 lbs of particulates/hr

Applicable Compliance Method:

Compliance with the emission limitation shall be determined by emission testing performed in accordance with OAC rule 3745-17-03.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Dryer/cooler EX-2 (P030)	OAC rule 3745-31-05 (PTI 05-6134, dated 9/22/93)	0.042 lb of particulate (PM)/ton of meal, 4.2 lbs/hr of PM, 18.4 TPY of PM, 3.15 lbs of PM10/hr, 13.8 TPY of PM10.

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The amount of meal processed in this emissions unit shall not exceed 100 tons per hour.

III. Monitoring and/or Record Keeping Requirements

- The permittee shall maintain daily records of the total quantity of grain processed through this emissions unit, in tons.

IV. Reporting Requirements

- The permittee shall notify the Director (the Ohio EPA, Southwest District Office) in writing of any daily record that shows a deviation of the allowable grain processing rate specified above in section B.II.1. above. The notification shall include a copy of such record(s) and shall be sent to the Director (the Ohio EPA, Southwest District Office) within 45 days after the deviation occurs.

V. Testing Requirements

- Compliance with the emission limitations in Section B.I.1. of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitations:

0.042 lb of PM/ton of meal, 4.2 lbs/hr of PM, 18.4 TPY of PM, 3.15 lbs of PM10/hr, 13.8 TPY of PM10.

Applicable Compliance Method:

Compliance shall be demonstrated by the stack test conducted in accordance with section A.V.1.b.

If compliance is shown with PM limit, compliance will also be shown for PM10 limits. Yearly emissions are calculated by multiplying the actual hourly emission rate times the actual hours of operation and dividing by 2000.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: VEGETABLE OIL REFINERY (P031)
Activity Description: VEGETABLE OIL REFINERY

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Vegetable oil refinery (P031)	OAC rule 3745-21-07(G)	See section A.II.1. below.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall not employ any photochemically reactive materials in this emissions unit, as defined in OAC rule 3745-21-01(C)(5).

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record each month the company identification for each liquid organic material employed and documentation indicating whether or not the liquid organic material is a photochemically reactive material, as defined by OAC 3745-21-01(C)(5).

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports to the Director (the Ohio EPA, Southwest District Office) that identify all periods during which any photochemically reactive material was employed in this emissions unit.

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Vegetable oil refinery (P031)	OAC rule 3745-31-05 (PTI #05-7864)	The amount of organic compound (OC) emissions shall not exceed 13 lbs/hr, 312 lbs/day of OC, 4.84 tons/month of OC, and 35.64 tpy of OC as a rolling, 12-month summation.

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information:
 - a. the month and year;
 - b. the amount of in-house soybean oil processed, in tons;
 - c. the amount of outside soybean oil processed, in tons;
 - d. the average hexane content of the in-house soybean oil, in ppm;
 - e. the average hexane content of the outside soybean oil, ppm;
 - f. the total amount of hexane in the oil processed $(b(d * 0.000001)) + (c(e * 0.000001))$, in tons;
 - g. the total amount of hexane in the oil processed per rolling, 12-month period, in tons; and
 - h. the total number of days the emissions unit was in operation;
 - i. the total number of hours the emissions unit was in operation;
 - j. the average daily emissions $\{(f/h) \times 2000\}$, in pounds per day; and
 - k. the average hourly emissions $\{(f/i) \times 2000\}$, in pounds per hour.
2. On a daily basis the permittee shall collect a representative sample of in-house oil processed through this emissions unit. At the end of each calendar month the daily samples shall be combined into a composite sample and analyzed to determine the average hexane content of the in-house oil using a gas chromatograph (GC). The test results shall be in parts per million (ppm). The GC shall be operated and maintained in accordance with the manufacturer's instructions.

III. Monitoring and/or Record Keeping Requirements (continued)

3. The permittee shall collect a representative sample of each shipment of outside soybean oil received for processing through this emissions unit. At the end of each calendar month the daily samples shall be combined into a composite sample and analyzed to determine the average hexane content of the outside oil using a GC. The test results shall be in ppm. The GC shall be operated and maintained in accordance with the manufacturer's instructions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which actual OC emissions from this emissions unit exceed the hourly, daily, monthly and/or rolling 12-month emission limitation.
2. The permittee shall submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year (i.e., January through December). These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emission limitations in Section B.I.1. of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a. Emissions Limitation:
The amount of OC emissions shall not exceed 13 lbs/hr, 312 lbs/day of OC, 4.84 tons/month of OC, 35.64 tpy of OC as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in section B.III.1.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: MEAL STORAGE TANK WEST (44%) (P032)
Activity Description: MEAL STORAGE TANK WEST (44%)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Meal storage tank west (44%) with baghouse	OAC rule 3745-17-07	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule. 53.3 lbs/hr of particulates
	OAC rule 3745-17-11	

- Additional Terms and Conditions**
None

II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range of 2 to 10 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

- The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
- The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - the color of the emissions;
 - the cause of the visible emissions;
 - the total duration of any visible emission incident; and
 - any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

- The permittee shall submit pressure drop deviation (excursion) reports to the Director (the Ohio EPA, Southwest District Office) that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above in section A.II.1.

IV. Reporting Requirements (continued)

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:

- 1.a. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

- i. The emission testing shall be conducted within 1 1/2 years after the issuance of the permit, and within 12 months prior to permit renewal.

- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulates.

- iii. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: Method 5 of 40 CFR Part 60, Appendix A.

If applicable, alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, SWDO.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent-to-Test" notification to the Ohio EPA, SWDO. The "Intent-to-Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, SWDO's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, SWDO shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, SWDO within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, SWDO.

- 1.b. Emission Limitation:
20% opacity, as a 6-minute average

Applicable Compliance Method: Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

- 1.c. Emission Limitation:
53.3 lbs of particulates/hr

Applicable Compliance Method:

Compliance with the emission limitation shall be determined by emission testing performed in accordance with OAC rule 3745-17-03.

Facility Name: **CARGILL, INCORPORATED**
Facility ID: **05-75-01-0160**
Emissions Unit: **MEAL STORAGE TANK WEST (44%) (P032)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Meal storage tank west (44%) with baghouse	OAC rule 3745-31-05 (PTI 05-7365)	0.55 lb/hr of particulates, 10% opacity

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Compliance with the emission limitations in Section B.I.1. of these terms and conditions shall be determined in accordance with the following methods:

- 1.a. Emission Limitation:
0.55 lb/hr of particulates.

Applicable Compliance Method:
Compliance shall be demonstrated by the stack tests conducted in accordance with section A.V.1.a.

- 1.b. Emission Limitation:
10% opacity

Applicable Compliance Method:
Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: MEAL STORAGE TANK EAST (48%) (P033)
Activity Description: MEAL STORAGE TANK EAST (48%)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Meal storage tank east (48%) with baghouse	OAC rule 3745-17-07	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule. 53.3 lbs/hr of particulates
	OAC rule 3745-17-11	

- Additional Terms and Conditions**
None

II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range of 2 to 10 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

- The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
- The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - the color of the emissions;
 - the cause of the visible emissions;
 - the total duration of any visible emission incident; and
 - any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

- The permittee shall submit pressure drop deviation (excursion) reports to the Director (the Ohio EPA, Southwest District Office) that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above in section A.II.1.

IV. Reporting Requirements (continued)

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:

- 1.a. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirement:

- i. The emission testing shall be conducted within 1 1/2 years after issuance of the permit, and within 12 months prior to permit renewal.
- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulates.
- iii. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate for particulates: Method 5 of 40 CFR Part 60, Appendix A.
- iv. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Southwest District Office.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent-to-Test" notification to the Ohio EPA, SWDO. The "Intent-to-Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, SWDO's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, SWDO shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, SWDO within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, SWDO.

- 1.b. Emission Limitation:
20% opacity, as a 6-minute average

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

- 1.c. Emission Limitation:
53.3 lbs of particulates/hr

Applicable Compliance Method:

Compliance with the emission limitation shall be determined by emission testing performed in accordance with OAC rule 3745-17-03.

Facility Name: **CARGILL, INCORPORATED**
Facility ID: **05-75-01-0160**
Emissions Unit: **MEAL STORAGE TANK EAST (48%) (P033)**

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Meal storage tank east (48%)	OAC rule 3745-31-05 (PTI 05-7365)	0.55 lbs/hr of particulates, 10% opacity,

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Compliance with the emission limitation in Section B.I.1. of these terms and conditions shall be determined in accordance with the following method:

- 1.a. Emission Limitation:
0.55 lbs/hr of particulates

Applicable Compliance Method:
Compliance shall be demonstrated by the stack tests conducted in accordance with section A.V.1.a.

- 1.b. Emission Limitation:
10% opacity

Applicable Compliance Method:
Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: COLUMN GRAIN DRYER #2 (P034)
Activity Description: COLUMN GRAIN DRYER #2

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Column grain dryer #2, with enclosure	40 CFR Part 60 Subpart DD	See section A.I.2.b. below. Visible emissions (VE) shall not exceed 0% opacity.
	OAC rule 3745-17-07	See section A.I.2.a. below.
	OAC rule 3745-17-11	53.1 lbs/hr of particulates

2. Additional Terms and Conditions

- 2.a. The visible particulate emission required by OAC rule 3745-17-07 is equal to or less stringent than the visible particulate emission limitation required by 40 CFR Part 60, Subpart DD.
- 2.b. The permittee shall maintain dryer plate perforations less than or equal to 0.094 inch in diameter in this emissions unit.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the cause of the visible emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:
0% opacity

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

- b. Emission Limitation:
53.1 lbs/hr of particulates

Applicable Compliance Method:

Compliance with the emission limitation shall be determined by emission testing performed in accordance with OAC rule 3745-17-03.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Column grain dryer #2	OAc rule 3745-31-05 (PTI 05-9010)	21.6 lbs/hr of particulates, 56.7 TPY of particulates, (combined emissions from both emissions units P006 and P034).

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the total quantity of grain processed through this emissions unit, in tons.
2. The permittee shall maintain annual records of the following information:
 - a. the total hours of operation; and
 - b. the total particulate emissions, in tons $\{(21.6 \times a)/2000\}$.

IV. Reporting Requirements

1. The permittee shall submit annual reports which specify the total particulate emissions from this emissions unit for the previous calendar year (i.e., January through December). These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emission limitations in Section B.I.1. of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:
 21.6 lbs/hr of particulates, 56.7 TPY of particulates

Applicable Compliance Method:
 Compliance with the emission limitation shall be determined by emission testing performed in accordance with OAC rule 3745-17-03. Compliance with the annual emission limitation shall be determined by the record keeping in section B.III.2.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: MEAL TRUCK LOADING (P901)
Activity Description: MEAL TRUCK LOADING

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Meal truck loading (P901) with enclosure	OAC rule 3745-17-07(B)(1)	Visible particulate emissions shall not exceed 20% opacity, as a 3-minute average.
	OAC rule 3745-17-08(B)	See section A.I.2. below.

2. Additional Terms and Conditions

- 2.a. The permittee shall employ reasonably available control measures to control fugitive emissions from this emissions unit to prevent fugitive dust from becoming airborne. Such reasonably available control measures consist of the enclosure of the truck loading facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive emissions from this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the cause of the visible emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible fugitive emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions. These reports shall be submitted to the Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitation in Section A.I.1. of these terms and conditions shall be determined in accordance with the following method:

Emission Limitation:

20% opacity, as a 3-minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: MEAL RAIL LOADING (P902)
Activity Description: MEAL RAIL LOADING

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Meal rail loading (P902) with enclosure	OAC rule 3745-17-07(B)(1)	Visible particulate emissions shall not exceed 20% opacity, as a 3-minute average.
	OAC rule 3745-17-08(B)	See section A.I.2. below.

2. Additional Terms and Conditions

- 2.a. The permittee shall employ reasonably available control measures to control fugitive emissions from this emissions unit to prevent fugitive dust from becoming airborne. Such reasonably available control measures consist of the enclosure of the truck loading facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive emissions from this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the cause of the visible emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible fugitive emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions. These reports shall be submitted to the Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitation in Section A.I.1. of these terms and conditions shall be determined in accordance with the following method:

Emission Limitation:

20% opacity, as a 3-minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: TRUCK RECEIVING (P903)
Activity Description: TRUCK RECEIVING

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Truck receiving with enclosure	OAC rule 3745-17-07(B)(1)	Visible particulate emissions shall not exceed 20% opacity, as a 3-minute average.
	OAC rule 3745-17-08(B)	See section A.I.2. below.

2. Additional Terms and Conditions

- 2.a. The permittee shall employ reasonably available control measures to control fugitive emissions from this emissions unit to prevent fugitive dust from becoming airborne. Such reasonably available control measures consist of the enclosure of the truck unloading facility.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive emissions from this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the cause of the visible emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible fugitive emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions. These reports shall be submitted to the Southwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

- 1.a** Compliance with the emission limitation in Section A.I.1. of these terms and conditions shall be determined in accordance with the following method:

Emission Limitation:

20% opacity, as a 3-minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Small/Medium Line Grinding Booths (P029)
Activity Description: Grinding booths used to clean small and medium castings.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Small/Medium Line Grinding Booths	OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(A) (Based on Figure II)	See A.I.2.a. 12.87 lbs/hr particulate emissions (PE)

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly inspections of the baghouse controlling this emissions unit. At a minimum, these weekly inspections shall include the following:
 - a. A visual leak check of the duct work leading to the baghouse.
 - b. A visual inspection of the filter bags contained in the baghouse.
 - c. A check of any visible emissions exiting the baghouse.

The permittee shall collect and record the results of each inspection in a log book. If any problems are noted during the weekly inspection, the measures taken to correct the problems should be noted.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which summarize the information required in Section A.III.1. above. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(1).

V. Testing Requirements (continued)

2. Compliance with the particulate emission limitation shall be demonstrated by the following:

lbs/hr PE = 7.19 tons castings cleaned/hour (max. hourly rate) x 17 lbs PE/ton castings cleaned (emission factor from AP-42 Table 12.10-7) x (1-.98) (overall control efficiency)

3. If testing is required to determine compliance with the allowable PE emission limitation, then testing shall be conducted using Method 5 of 40 CFR Part 60, Appendix A.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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Small/Medium Line Grinding Booths

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: HEXANE TANK #85 (T002)

Activity Description: HEXANE TANK #85, UNDERGROUND HEXANE STORAGE - EMISSIONS INCLUDED IN P018

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
20,000-gallon underground hexane storage tank #85 with submerged fill	OAC rule 3745-21-09(L) 40 CFR Part 60, Subpart Kb	Exempt See section A.I.2.below. See section A.II. below.

2. Additional Terms and Conditions

- 2.a. In accordance with OAC rule 3745-21-09(L)(2), this storage tank is exempt from the requirements of OAC rule 3745-21-09(L)(1) because the tank has a capacity of less than 40,000 gallons.

II. Operational Restrictions

1. The permittee shall maintain the maximum true vapor pressure of the volatile organic liquid (VOL) stored in this emissions unit at less than 27.6 kPa.

III. Monitoring and/or Record Keeping Requirements

1. In accordance with 40 CFR 60.116b(a) and (b), the permittee shall keep readily accessible records for the life of the source indicating:
 - a. the dimension of the storage vessel; and
 - b. an analysis showing the capacity of the storage vessel.
2. In accordance with 40 CFR 60.116b(c), the permittee shall maintain a record indicating:
 - a. the VOL stored,
 - b. the period of storage; and
 - c. the maximum true vapor pressure of the VOL, during the respective storage period.

IV. Reporting Requirements

1. In accordance with 40 CFR 60.116b(d), the permittee shall notify the Ohio EPA, Southwest District Office within 30 days when the maximum true vapor pressure of the VOL exceeds the maximum true vapor pressure value of 27.6 kPa.

Facility Name: **CARGILL, INCORPORATED**

Facility ID: **05-75-01-0160**

Emissions Unit: **HEXANE TANK #85 (T002)**

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
20,000-gallon underground hexane storage tank #85 with submerged fill	OAC rule 3745-31-05 (PTI 05-5816)	1.63 TPY of volatile organic compounds (VOC)

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain a record each month of the throughput, in 1000 gallons, for this storage tank, including any recycled hexane.

IV. Reporting Requirements

1. The permittee shall submit annual reports which specify the total organic compound emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emission limitation in section B.I.1. of these terms and conditions shall be determined in accordance with the following method:

Emissions Limitation:
1.63 TPY of VOC

Applicable Compliance Method:
Compliance shall be determined using the following emission factor, 5.6 pounds VOC/1000 gallons throughput (based on emission factor determined in PTI #05-5816 using AP-42, page 4.3-8 equation revised (2) dated 9/85). $[(\text{Summation of monthly throughput in gallons}) \times 5.6 \text{ lbs}/1000 \text{ gallons}]/2000 \text{ lbs}/\text{ton}]$

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: HEXANE TANK #86 (T003)

Activity Description: HEXANE TANK #86 - EMISSIONS INCLUDED IN P018

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
20,000-gallon underground hexane storage tank #86 with submerged fill	OAC rule 3745-21-09(L) 40 CFR Part 60, Subpart Kb	Exempt See section A.I.2.a. below. See section A.II. below.

2. Additional Terms and Conditions

- 2.a. In accordance with OAC rule 3745-21-09(L)(2), this storage tank is exempt from the requirements of OAC rule 3745-21-09(L)(1) because the tank has a capacity of less than 40,000 gallons.

II. Operational Restrictions

1. The permittee shall maintain the maximum true vapor pressure of the volatile organic liquid (VOL) stored in this emissions unit at less than 27.6 kPa.

III. Monitoring and/or Record Keeping Requirements

1. In accordance with 40 CFR 60.116b(a) and (b), the permittee shall keep readily accessible records for the life of the source indicating:
 - a. the dimension of the storage vessel; and
 - b. an analysis showing the capacity of the storage vessel.
2. In accordance with 40 CFR 60.116b(c), the permittee shall maintain a record indicating:
 - a. the VOL stored,
 - b. the period of storage; and
 - c. the maximum true vapor pressure of the VOL, during the respective storage period.

IV. Reporting Requirements

1. In accordance with 40 CFR 60.116b(d), the permittee shall notify the Ohio EPA, Southwest District Office within 30 days when the maximum true vapor pressure of the VOL exceeds the maximum true vapor pressure value of 27.6 kPa.

Facility Name: **CARGILL, INCORPORATED**

Facility ID: **05-75-01-0160**

Emissions Unit: **HEXANE TANK #86 (T003)**

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
20,000-gallon underground hexane storage tank #86 with submerged fill	OAC rule 3745-31-05 (PTI 05-5816)	1.63 TPY of volatile organic compounds (VOC)

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

- The permittee shall maintain a record each month of the throughput, in 1000 gallons, for this storage tank, including any recycled hexane.

IV. Reporting Requirements

- The permittee shall submit annual reports which specify the total organic compound emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

- Compliance with the emission limitation in Section B.I.1. of these terms and conditions shall be determined in accordance with the following method:

Emissions Limitation:
1.63 TPY OF VOC

Applicable Compliance Method:
Compliance shall be determined using the following emission factor, 5.6 pounds VOC/1000 gallons throughput (based on emission factor determined in PTI #05-5816 using AP-42, page 4.3-8 equation revised (2) dated 9/85). $\{[(\text{Summation of monthly throughput in gallons}) \times 5.6 \text{ lbs}/1000 \text{ gallons}]/2000 \text{ lbs}/\text{ton}\}$

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: PAVED HAUL ROAD (Z001)
Activity Description: PAVED HAUL ROAD

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paved haul road and parking area (Z001)	OAC rule 3745-17-07(B)(4)	See section A.I.2.a. below.
	OAC rule 3745-17-08 (B), (B)(8), (B)(9)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See section A.I.2.b.-f. below.)

2. Additional Terms and Conditions

- 2.a. There shall be no visible particulate emissions from any paved roadway or parking area except for a period of time not to exceed 6 minute during any 60-minute observation period.
- 2.b. The permittee shall sweep the paved roadways and parking areas to minimize or eliminate, at all times, visible emissions of fugitive dust generated by vehicular traffic. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c. The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 2.d. The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- 2.e. Open bodied vehicles transporting materials likely to become airborne shall be covered at all times.
- 2.f. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of the paved roadways and parking areas in accordance with the following frequencies:

paved roadways	minimum inspection frequency
All	Daily
paved parking areas	minimum inspection frequency
All	Daily
2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented;
 - d. the name of the and equipment operator responsible for sweeping; and
 - e. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 4.e. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

IV. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation: No visible particulate emissions to exceed 6 minutes during any 60-minute period.

Applicable Compliance Method: Compliance shall be determined in accordance with Test Method 22 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

VI. Miscellaneous Requirements

1. **None**

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paved haul road (Z001)	OAC rule 3745-31-05	No visible particulate emissions to exceed 1 minute during any 60-minute period. best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see sections A.2.b. through A.2.f.)

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The maximum speed limit of 15 miles per hour shall be posted and enforced on the property.

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Compliance with the emission limitation in Section B.I.1 of these terms and conditions shall be determined in accordance with the following method:

Emission Limitation:

No visible particulate emissions to exceed 1 minute during any 60-minute period.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 22 as set forth in "Appendix A" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

VI. Miscellaneous Requirements

None

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