

**Iowa Department of Natural Resources
Title V Operating Permit**

Name of Permitted Facility: Cargill Soybean East Plant
Facility Location: 410 C Avenue NE, Cedar Rapids, IA 52406
Air Quality Operating Permit Number: 99-TV-044R2-M001
Expiration Date: September 22, 2016
Permit Renewal Application Deadline: March 22, 2016

EIQ Number: 92-9015
Facility File Number: 57-01-003

Responsible Official

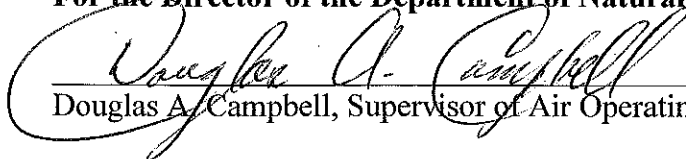
Name: Scott Ites
Title: Facility Superintendent
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Permit Contact Person for the Facility

Name: Matt Scherbring
Title: EHS Administrator
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This permit is issued in accordance with 567 Iowa Administrative Code Chapter 22, and is issued subject to the terms and conditions contained in this permit.

For the Director of the Department of Natural Resources



Douglas A. Campbell, Supervisor of Air Operating Permits Section

1/24/2012

Date

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- V. **Appendix A: Consent Order *United States of America vs. Cargill, Inc.*, Civil Action No. 05-CV-2037**
- Appendix B: NSPS Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units**
- Appendix C: NSPS Subpart DD, Standards of Performance for Grain Elevators**
- Appendix D: NESHAP Subpart GGGG, Solvent Extraction for Vegetable Oil Production**
- Appendix E: NESHAP Subpart DDDDD, Industrial, Commercial, and Institutional Boilers and Process Heaters.**

Abbreviations

acfm.....	actual cubic feet per minute
CFR.....	Code of Federal Regulation
CE	control equipment
CEM.....	continuous emission monitor
°F.....	degrees Fahrenheit
EIQ.....	emissions inventory questionnaire
EP	emission point
EU	emission unit
gr./dscf	grains per dry standard cubic foot
gr./100 cf.....	grains per one hundred cubic feet
IAC.....	Iowa Administrative Code
IDNR.....	Iowa Department of Natural Resources
MVAC.....	motor vehicle air conditioner
NAICS.....	North American Industry Classification System
NSPS.....	new source performance standard
ppmv	parts per million by volume
lb./hr	pounds per hour
lb./MMBtu	pounds per million British thermal units
SCC.....	Source Classification Codes
scfm.....	standard cubic feet per minute
SIC.....	Standard Industrial Classification
TPY.....	tons per year
USEPA.....	United States Environmental Protection Agency

Pollutants

PM.....	particulate matter
PM ₁₀	particulate matter ten microns or less in diameter
SO ₂	sulfur dioxide
NO _x	nitrogen oxides
VOC.....	volatile organic compound
CO.....	carbon monoxide
HAP.....	hazardous air pollutant

I. Facility Description and Equipment List

Facility Name: Cargill Soybean East Plant

Permit Number: 99-TV-004R2-M001

Facility Description: Soybean/Oil Meal (SIC 2075)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	LCPH Permit Number (ATI/PTO)
1	1	Truck Dump	4876/4987
2	2	Rail Unload/Transfer Dust Collector	4121/4102
3	3	Bean Silos and Transferring Equipment	3256/3207
5	5	Grain Dryer	2623/4457
8	8	Flaker Aspiration	216/109
10	10	Extraction Feed Aspiration	339/320
11	11	Purging of Hexane Vapors	5535/5615
12	12	Extraction Process	5536/5616
19	19	Meal Grinding	2630/2469
20	20	Soybean Hull Aspiration and Cracking	3063/3045
21	21	Dehulling Soybeans	2474/2367
25	25	Rail Meal Loadout Dust Collector	3637/3506
26	26	Hull Loadout	2626/2470
30	30	Hull Processing and Cooling	2656/2634
31	31	New Elevator B Dust Collector	974/1475
34	34	Meal Tank #3 DC	5088/5113
36	36	Meal Tank #5 DC	5089/5114
40	40	Grain Dryer Aspirator Dust Collector	3708/3556
41	41	Prep Vacuum Cleaning System	2036/1979
42	42	Clay Tank Vent	2045/1980
43	43	Meal Truck Loadout	2327/2257
44	44	Meal Truck Loadout	2326/2258
46	46	Meal Tank #5 Conveyor	5090/5115
47	47	Meal Tank #3 Conveyor	5091/5116
49	49.1	Meal Dryer Deck 1	5541/5617
49	49.2	Meal Dryer Deck 2	5541/5617
49	49.3	Meal Dryer Deck 3	5541/5617
49	49.4	Meal Cooler Deck	5541/5617
56	56	82,500 lb/hr steam, 99.9 MMBtu/hr Natural Gas fired	5717/5618
56	56	82,500 lb/hr steam, 99.9 MMBtu/hr Fuel Oil fired	5717/5618

Emission Point Number	Emission Unit Number	Emission Unit Description	LCPH Permit Number (ATI/PTO)
120	120	DT Discharge Conveyor Steam Vent 1	5986/5744
121	121	DT Discharge Conveyor Steam Vent 2	5987/5745
122	122	DT Discharge Conveyor Steam Vent 3	5988/5746
123	123	DT Discharge Conveyor Steam Vent 4	5989/5747
124	124	DT Discharge Conveyor Steam Vent 5	5990/5748

II. Plant-Wide Conditions

Facility Name: Cargill Soybean East Plant
Permit Number: 99-TV-004R2-M001

Permit conditions are established in accord with 567 Iowa Administrative Code rule 22.108

Permit Duration

The term of this permit is: less than 5 years
Commencing on: September 23, 2011
Ending on: September 22, 2016

Amendments, modifications and reopenings of the permit shall be obtained in accordance with 567 Iowa Administrative Code rules 22.110 - 22.114. Permits may be suspended, terminated, or revoked as specified in 567 Iowa Administrative Code Rules 22.115.

Plant-Wide Emission Limits

The atmospheric emissions from the plant as a whole shall not exceed the following:

The following emission limit sets a facility-wide cap for VOC emissions associated with the soy oil extraction process. This included all permitted point source and non-point source fugitive emissions.

Pollutant: Volatile Organic Compounds (VOC)⁽¹⁾

Emission Limit: 494 tons per year

Authority for Requirement: LCPH ATI 5535/ PTO 5615
LCPH ATI 5536/ PTO 5616

⁽¹⁾This is a facility-wide limit for solvent loss associated with the Solvent Extraction for the Vegetable Oil Production Plant. The solvent loss limit encompasses all source of solvent loss, i.e., purging of hexane vapors (EP011), soybean oil extraction (EP012), meal dryer/cooler (EP049), meal grinding and sifting (EP19), rail meal loadout (EP025), meal tanks 3 and 5 (EP 034 & 036), meal truck loadouts (EP043 and 044), DT discharge conveyor steam vents 1-5 (EP120-124), and fugitive losses. Compliance with the 494 tpy limit is determined on a mass balance approach (see Operating Limits and Operating Condition Monitoring and Recordkeeping sections).

Plant-Wide Operating Limits

- The maximum VOC content of any solvent shall not exceed 5.6 pounds per gallon.
- The maximum solvent usage shall not exceed 176,295 gallons per 12-month rolling total.

Authority for Requirement: LCPH ATI 5535/ PTO 5615
LCPH ATI 5536/ PTO 5616

Plant-Wide Operating Condition Monitoring and Recordkeeping

If not specified elsewhere, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

- Material Safety Data Sheet (MSDS) of all solvent(s) used in the extraction process.
- Record the VOC and VHAP content of the solvent upon each new shipment of solvent to the facility in pounds per gallon.
- Record on a monthly basis the total solvent usage in gallons. Beginning with the first full month after permit issuance, Cargill will total the 12-month rolling total by using the first full month after permit issuance plus the previous 11-month totals.
- Calculate and record rolling 12-month totals for total solvent usage in gallons.
- Record on a monthly basis the total soybeans crushed in tons.
- Calculate and record the rolling 12-months totals of the amount of soybeans crushed in tons.

Authority for Requirement: LCPH ATI 5535/ PTO 5615
LCPH ATI 5536/ PTO 561

Unless specified otherwise in the Source Specific Conditions, the following limitations and supporting regulations apply to all emission points at this plant:

Opacity (visible emissions): 20% opacity
Authority for Requirement: LCO 10.7

Sulfur Dioxide (SO₂): 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"
LCO 10.12(2)

Particulate Matter:

No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.

For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).

Authority for Requirement: 567 IAC 23.3(2)"a"

Fugitive Dust: Attainment and Unclassified Areas - No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance,

as defined in Iowa Code section 657.1, from becoming airborne. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizers or limestone.
4. Covering at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.
5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.
6. Reducing the speed of vehicles traveling over on-property surfaces as necessary to minimize the generation of airborne dusts.

Authority for Requirement: 567 IAC 23.3(2)"c"

Compliance Plan

The owner/operator shall comply with the applicable requirements listed below. The compliance status is based on information provided by the applicant.

Unless otherwise noted in Section III of this permit, Cargill Soybean East Plant is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which become effective during the permit term, Cargill Soybean East Plant shall comply with such requirements in a timely manner.

Authority for Requirement: 567 IAC 22.108(15)

Consent Decree

On March 3, 2006, the Federal District Court in Minnesota entered a Consent Decree between Cargill, Incorporated, U.S. EPA, Iowa Department of Natural Resources and other participating agencies. U.S. et al v. Cargill, Incorporated Civil Action Number 05-2037JMR/FLN. This consent decree is hereby incorporated in its entirety into this permit. During the effective period of the Consent Decree, Cargill shall comply with the specific emission reduction requirements, and any other applicable requirements specified in the Consent Decree and applicable to this facility. Where a conflict exists, these requirements shall supersede and control over corresponding terms and conditions of this permit. A copy of this Consent Decree is included as Appendix A of this permit.

Authority for Requirement: Civil Action Number 05-2037JMR/FLN
567 IAC 22.108(1)

III. Emission Point-Specific Conditions

Facility Name: Cargill Soybean East Plant
Permit Number: 99-TV-044-R2-M001

Emission Point ID Number: 001

Associated Equipment

Associated Emission Unit ID Numbers: 001
Emissions Control Equipment ID Number: 001
Emissions Control Equipment Description: Fabric Filter

Emission Unit vented through this Emission Point: 001
Emission Unit Description: Grain Receiving- Truck Dump
Raw Material/Fuel: Soybean
Rated Capacity: 600 tons/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 0% (process emissions)

Authority for Requirement: 40 CFR 60.302(b)(2) Subpart DD
567 IAC 23.1(2) ooo
LCO10.9 (2) a (67)
LCPH ATI 4876/PTO 4987

Pollutant: Opacity

Emission Limit(s): 0% (fugitive emissions from grain handling operation)

Authority for Requirement: 40 CFR 60.302(b)(2) Subpart DD
567 IAC 23.1(2) ooo
LCO10.9 (2) a (67)
LCPH ATI 4876/PTO 4987

Pollutant: Opacity

Emission Limit(s): 5% (fugitive emissions from truck unloading, railcar unloading and loading)

Authority for Requirement: 40 CFR 60.302(b)(2) Subpart DD
567 IAC 23.1(2) ooo
LCO10.9 (2) a (67)
LCPH ATI 4876/PTO 4987

Pollutant: Opacity

Emission Limit(s): 10% (from any truck loading station)

Authority for Requirement: 40 CFR 60.302(b)(2) Subpart DD
567 IAC 23.1(2) ooo
LCO10.9 (2) a (67)
LCPH ATI 4876/PTO 4987

Pollutant: PM-10

Emission Limit(s): 0.86 lbs/hr, 0.01 gr/scf

Authority for Requirement: LCPH ATI 4876/PTO 4987

Pollutant: Particulate Matter

Emission Limit(s): 0.86 lbs/hr, 0.01 gr/scf

Authority for Requirement: 40 CFR 60.302(b)(2) Subpart DD
567 IAC 23.1(2) ooo
LCO10.9 (2) a (67)
LCPH ATI 4876/PTO 4987

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device:

A baghouse shall be used to control particulate emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 4876/PTO 4987

NSPS and NESHAP Applicability:

This emission point is subject to the New Source Performance Standards (NSPS) Subpart DD, Standards of Performance for Grain Elevators.

Cargill, Inc. – Cedar Rapids East Facility is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP), Subpart A, General Provisions and Subpart GGGG-Solvent Extraction for Vegetable Oil Production.

Authority for Requirement: LCPH ATI 4876/PTO 4987

Operating Limits:

The owner or operator of this facility shall comply with the operational limits and requirements listed below:

This facility shall comply with the requirements of NSPS Subpart DD by meeting the compliance requirements of 40 CFR 60.300 through 60.304.

Recordkeeping Requirements:

Record daily pressure drop readings.

Record weekly opacity observations.

Recordkeeping for NSPS Subpart DD shall be done according to 40 CFR 60.300 through 60.304.

Record all maintenance and repair completed on the control equipment.

Authority for Requirement: LCPH ATI 4876/PTO 4987

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 7.5

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): 17" x 20"

Exhaust Temperature (°F): Ambient

Exhaust Flowrate (acfm): 10,000

Authority for Requirement: LCPH ATI 4876/PTO 4987

The temperature and flow rates are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Stack testing is not required at this time.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >0 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the

next operating day where weather permits.
Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that is representative of the source's compliance with the applicable requirements.

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.
Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 002

Associated Equipment

Associated Emission Unit ID Numbers: 002
Emissions Control Equipment ID Number: 002
Emissions Control Equipment Description: Fabric Filter

Emission Unit vented through this Emission Point: 002
Emission Unit Description: Rail Bean Unloading Dust Collector
Raw Material/Fuel: Soybean
Rated Capacity: 300 tons/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 5%
Authority for Requirement: LCPH ATI 4121/ PTO 4102

Pollutant: PM-10
Emission Limit(s): 0.01 gr/scf, 1.12 lbs/hr, 4.92 tpy
Authority for Requirement: LCPH ATI 4121/PTO 4102

Pollutant: PM
Emission Limit(s): 0.01 gr/scf
Authority for Requirement: 40 CFR 60.302(b)(2) Subpart DD
567 IAC 23.1(2) ooo
LCO10.9 (2) a (67)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device:

A bag filter dust collector shall be maintained on this source in a good operating condition. A preventative maintenance plan shall be followed to ensure continued compliance with the emission limit state in Condition 4 (Emission Limits) of this permit.

This source shall have a pressure drop gauge installed in an easily accessible area. This gauge shall be maintained in a good operating condition at all times.

Authority for Requirement: LCPH ATI 4121/PTO 4102

Operating Limits:

The owner or operator of this facility shall comply with the operational limits and requirements listed below:

Airflow from the baghouse is 13,100 scfm. Any change in airflow shall be evaluated according to Linn County Ordinance 10.5.

The maximum unloading process rate shall be limited to 10,000 Bu/hr or 300 tons/hr.

The source shall be maintained so no fugitive dust is generated at the point of unloading and/or any other point throughout the process.

Authority for Requirement: LCPH ATI 4121/PTO 4102

Monitoring Requirements:

The following shall be monitored:

- pressure drop reading across dust collector
 - visible emissions/opacity
- All monitors shall be easily accessible to air pollution control personnel.

Authority for Requirement: LCPH ATI 4121/PTO 4102

Recordkeeping Requirements:

A logbook of operations for this source shall be maintained. The following information shall be recorded and kept on site for a period of no less than five years.

- daily pressure drop reading.
- weekly opacity observations
- copies of emission test results shall be retained until a new approved representative test is conducted or for 5 years, whichever is longer.

These records shall be available on site for viewing by air pollution control.

Authority for Requirement: LCPH ATI 4121/PTO 4102

- The owner or operator shall record the hours of operation and calculate the 12-month rolling total for EP 002 on a monthly basis.

Authority for Requirement: 567 IAC 22.108(4)

NSPS Requirements:

Method 9 and the procedures in 40 CFR 60.11(b) shall be used to determine opacity. The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR 60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1(2)

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing⁽¹⁾:

Pollutant – PM-10

1st Stack Test to be Completed by January 1, 2014- within the first two and a half years of permit term

Test Method – Method 201A with 202 (40 CFR 51) or approved alternative

Authority for Requirement - 567 IAC 22.108(3)

Pollutant - PM

1st Stack Test to be Completed by January 1, 2014 within the first two and a half years of permit term

Test Method – Iowa Compliance Sampling Manual or approved alternative

Authority for Requirement – 567 IAC 22.108(3)

⁽¹⁾ Stack testing for this source is only required if the hours of operation exceed 876 hours per year based on a twelve month rolling total.

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >5 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If

weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

CAM Plan for EP-002 Rail Unload/Transfer Dust Collector Baghouse

I. Background

A. Emissions Unit

Description: Rail Unload/Transfer Dust Collector
Identification: EP 002
Facility: Cargill Cedar Rapids Soybean East Plant
Cedar Rapids, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: Permit LCPH ATI 4121/ PTO 4102
Opacity emission limit: 5%
PM-10 emission limit: 0.01 gr/scf, 1.12 lbs/hr, 4.92 tpy
Particulate emission limit: 0.1 gr/scf
Current Monitoring requirements: Stack Testing, weekly opacity readings.

C. Control Technology Fabric Filter

II. Monitoring Approach

A. Indicator

Daily pressure drop checks will be used as an indicator.

B. Measurement Approach

Pressure drop will be checked daily when operating to ensure that the pressure drop is in the range of 2 to 8 inches of water during the material handling operation of the unit.

C. Indicator Range

Pressure drop should be no less than 2 inches of water.

Pressure drop should not exceed 8 inches of H₂O.

D. QIP (Quality Improvement Plan) Threshold

The QIP threshold is six excursions in a six month reporting period

E. Performance Criteria

Data representativeness:

Pressure drop less than 2 inches of water or greater than 8 inches of water would indicate decrease in the performance the baghouse and potentially indicate an increase of particulate emissions.

Verification of operational status:

Records of pressure drop readings will be maintained for five years.

QA/QC practices and criteria:

The facility shall check the pressure drop daily when the emission unit on this emission point is in operation. If a pressure drop less than 2 inches of water or greater than 8 inches of water is observed, corrective action will be taken within 8 hours.

Monitoring frequency and data

Collection procedure:

Pressure drop readings shall be conducted daily during a period when the emission unit on this emission point is in operation. Records of the readings shall be maintained for five years.

Emission Point ID Number: 003

Associated Equipment

Associated Emission Unit ID Numbers: 003
Emissions Control Equipment ID Number: 003
Emissions Control Equipment Description: Fabric Filter

Emission Unit vented through this Emission Point: 003
Emission Unit Description: Bean Silos & Transferring Equipment
Raw Material/Fuel: Soybeans
Rated Capacity: 750 tons/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 0%
Authority for Requirement: 40 CFR 60.302(b)(2) Subpart DD
567 IAC 23.1(2) ooo
LCO10.9 (2) a (67)

Pollutant: PM-10
Emission Limit(s): 1.46 lbs/hr, 6.38 tpy
Authority for Requirement: LCPH ATI 3256 / PTO 3207

Pollutant: Particulate Matter
Emission Limit(s): 0.01 gr./dscf
Authority for Requirement: 40 CFR 60.302(b)(2) Subpart DD
567 IAC 23.1(2) ooo
LCO10.9 (2) a (67)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device:

A bag filter dust collector shall be maintained on this source in a good operating condition. A preventative maintenance plan shall be followed to ensure continued compliance with the emission limit state in Condition 4 (Emission Limits) of this permit.

This source shall have a pressure drop gauge installed in an easily accessible area. This gauge shall be maintained in a good operating condition at all times.

Authority for Requirement: LCPH ATI 3256 / PTO 3207

Operating Limits:

Air flow to the baghouse shall be limited to 8500 dscfm. Any increase in airflow would be considered a major modification and would necessitate a new authorization to install permit.
Authority for Requirement: LCPH ATI 3256 / PTO 3207

NSPS Requirements:

Method 9 and the procedures in 40 CFR 60.11(b) shall be used to determine opacity. The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR 60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1(2)

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >0 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to

retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

CAM Plan for EP-003 Bean Silos and Transferring Equipment Dust Collector Fabric Filter

I. Background

A. Emissions Unit

Description: Bean Silos and Transferring Equipment Dust Collector
Identification: EP 003
Facility: Cargill Cedar Rapids Soybean East Plant
Cedar Rapids, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: Permit LCPH ATI 3256/ PTO 3207
Opacity emission limit: 0%
PM-10 emission limit: 1.46 lbs/hr and 6.38 tpy
Particulate emission limit: 0.01 gr/scf
Current Monitoring requirements: Stack Testing, weekly opacity readings.

C. Control Technology

Fabric Filter

II. Monitoring Approach

A. Indicator

Daily pressure drop checks will be used as an indicator.

B. Measurement Approach

Pressure drop will be checked daily when operating to ensure that the pressure drop is in the range of 0.25 to 4 inches of water during the material handling operation of the unit.

C. Indicator Range

Pressure drop should be no less than 0.25 inches of water.
Pressure drop should not exceed 4 inches of H₂O.

D. QIP (Quality Improvement Plan) Threshold

The QIP threshold is six excursions in a six month reporting period

E. Performance Criteria

Data representativeness:

Pressure drop less than 0.25 inches of water or greater than 4 inches of water would indicate decrease in the performance the baghouse and potentially indicate an increase of particulate emissions.

Verification of operational status:

Records of pressure drop readings will be maintained for five years.

QA/QC practices and criteria:

The facility shall check the pressure drop daily when the emission unit on this emission point is in operation. If a pressure drop less than 0.25 inches of water or greater than 4 inches of water is observed, corrective action will be taken within 8 hours.

Monitoring frequency and data
Collection procedure:

Pressure drop readings shall be conducted daily during a period when the emission unit on this emission point is in operation. Records of the readings shall be maintained for five years.

Emission Point ID Number: 005

Associated Equipment

Associated Emission Unit ID Numbers: 005

Emission Unit vented through this Emission Point: 005
Emission Unit Description: Grain Dryer
Raw Material/Fuel: Soybean
Rated Capacity: 5000 bu/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 0%
Authority for Requirement: 40 CFR 60.302(b)(2) Subpart DD
567 IAC 23.1(2) ooo
LCO10.9 (2) a (67)
LCPH ATI 2623/ PTO 4457

Pollutant: PM-10
Emission Limit(s): 10.17 lbs/hr, 0.1 gr/scf
Authority for Requirement: LCPH ATI 2623/ PTO 4457

Pollutant: Particulate Matter
Emission Limit(s): 10.17 lbs/hr, 0.1 gr/scf
Authority for Requirement: 567 IAC 23.4(7)
LCO 10.9(1)"g"
LCPH ATI 2623/ PTO 4457

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

- The column dryer shall have column plate perforations not to exceed 2.4 mm in diameter (ca. 0.094 inch).
- The use of the bean pre-cleaner system (EP#40, Grain Dryer Aspiration Dust Collector) is required whenever the dryer is in use.
- The process rate for this source shall be limited to a weekly average not to exceed 5000 bushels/hour.

Authority for Requirement: LCPH ATI 2623 / PTO 4457

Opacity Monitoring:

Opacity shall be observed on a weekly basis to ensure no visible emissions during the material handling operation of the unit. If visible emissions are observed this would be a violation and corrective action will be taken as soon as possible, but no later than eight (8) hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2 hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: LCPH ATI 2623 / PTO 4457

Operating Condition Monitoring and Record keeping:

A log of operation shall be maintained for the operation of the above listed unit.

- Weekly opacity observations when in use and any action resulting from the observation.
- Weekly average process rate (bushels/hr)

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 2623 / PTO 4457

Quarterly Reporting Requirements:

The following information shall be submitted to this department by the 15th of each month for the previous quarter (January 15, April 15, July 15, and October 15).

- Submit a quarterly report summarizing the weekly average process rate (bushels/hr) based on a 12-month rolling average.

Authority for Requirement: LCPH ATI 2623 / PTO 4457

NSPS Requirements:

Method 9 and the procedures in 40 CFR 60.11(b) shall be used to determine opacity. The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR 60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1(2)

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 60
- Stack Opening, (inches, dia.): 204 x 48
- Exhaust Flow Rate (acfm): 40,000
- Exhaust Temperature (°F): 110
- Discharge Style: Wall Vent
- Authority for Requirement: LCPH ATI 2623 / PTO 4457

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. The records shall be maintained for five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not cause a change in the visible emissions reading, then a Method 9 reader will be brought in to determine if a violation has occurred.

If an opacity >0% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(3)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 008

Associated Equipment

Associated Emission Unit ID Numbers: 008
Emissions Control Equipment ID Number: 008
Emissions Control Equipment Description: Cyclone

Emission Unit vented through this Emission Point: 008
Emission Unit Description: Flaker Aspiration
Raw Material/Fuel: Soybean
Rated Capacity: 115 tons/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCO 10.7

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.4(7)
LCO 10.9(1)"g"

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant – PM-10
1st Stack Test to be Completed by – January 1, 2014- within the first two and a half years of permit term
Test Method - Method 201A with 202 (40 CFR 51) or approved alternative
Authority for Requirement - Authority for Requirement - 567 IAC 22.108(3)

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 010

Associated Equipment

Associated Emission Unit ID Numbers: 010
Emissions Control Equipment ID Number: 010
Emissions Control Equipment Description: Cyclone

Emission Unit vented through this Emission Point: 010
Emission Unit Description: Extractor Feed Aspirators
Raw Material/Fuel: Soybean
Rated Capacity: 115 ton/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCO 10.7

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.4(7)
LCO 10.9(1)"g"

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to

retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 011

Associated Equipment

Associated Emission Unit ID Numbers: 011

Emission Unit vented through this Emission Point: 011
Emission Unit Description: Purging of Hexane Vapors
Raw Material/Fuel: Hexane
Rated Capacity: 115 tons/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: VOC

Emission Limit(s): 494 tpy, 0.175 gal/ton

Authority for Requirement: LCPH ATI 5535/PTO 5615
Consent Decree 05-CV-02037

Pollutant: HAP (single)

Emission Limit(s): 0.2 gal/ton

Authority for Requirement: 40 CFR 63.2840 Subpart GGGG
567 IAC 23.1(3) "cg"
LCO10.9 (4) "gggg"
LCPH ATI 5535/PTO 5615

Operational Limits & Requirements

NSPS and NESHAP Applicability

In general, the federal standards of performance for new stationary sources (new source performance standards) shall be applicable as specified in LCCO 10.9.2 and 567 IAC 23.1(2). The federal standards for hazardous air pollutants (national emission standards for hazardous air pollutants) shall be applicable as specified in LCCO 10.9.3 and 567 IAC 23.1(3). The federal standards for hazardous air pollutants for source categories (national emission standards for hazardous air pollutants for source categories) shall be applicable as specified in LCCO 10.9.4 and 567 IAC 23.1(4).

A. The source is not subject to an NSPS at this time.

B. This source is subject to the requirements the National Emission Standards for Hazardous Air Pollutants (NESHAP), Subpart A, General Provisions and Subpart GGGG – Solvent Extraction for Vegetable Oil Production.

Authority for Requirement: LCPH ATI 5535/PTO 5615

Operating Limits

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

- A. This facility shall meet requirements of 40 CFR 63 §§ 1-16 [NESHAP Subpart A] to comply with LCCO 10.9(4).
- B. This facility shall comply with the requirements of NESHAP Subpart GGGG by meeting the standards of 40 CFR §63.2840 to comply with LCCO 10.9(4)(gggg).
- C. This facility shall comply with the requirements of NESHAP Subpart GGGG by meeting the compliance requirements of 40 CFR §63.2850 through 40 CFR §63.2855 to comply with LCCO 10.9(4)(gggg).
- D. The maximum VOC content of any solvent shall not exceed 5.6 pounds per gallon.
- E. The maximum solvent usage shall not exceed 176,295 gallons per 12-month rolling total.
- F. For purposes of staying a synthetic minor project for Prevention of Significant Deterioration (PSD), the owner or operator shall have the following limits for a period ten (10) years from startup following the replacement of the economizer:
 - a) Record the startup date of the extraction process following the modifications. This date signifies the beginning of the ten (10) year monitoring and recordkeeping period.
 - b) The baseline actual emissions for the project are equal to 372.78 tons/year of VOC. The baseline actual emissions shall remain unchanged throughout the ten (10) year period.
 - c) The owner or operator shall determine the actual emissions for the project by summing the emissions each month from the extraction process (EU 12).
 - d) Actual emissions minus the baseline actual emissions from the project shall not exceed the following PSD significant levels: 39.4 tons per 12-month rolling period for VOC. If the emission increases from the project upon the date of startup following the extraction process modifications, do not exceed the PSD significance levels, the PSD significance limits shall no longer apply after the 10-year period. If these limits are exceeded prior to the 10-year period date, the owner or operator shall submit a report pursuant to 567 IAC 33.3(18)"f"(7).

Authority for Requirement: LCPH ATI 5535/PTO 5615

Operating Condition Monitoring and Recordkeeping

If not specified elsewhere, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

- A. A Material Safety Data Sheet (MSDS) of all solvent(s) used in the extraction process.
- B. Record the VOC and VHAP content of the solvent upon each new shipment of solvent to the facility in pounds per gallon.
- C. Record on a monthly basis the total solvent usage in gallons. Beginning with the first full month after permit issuance, Cargill will total the 12-month rolling total by using the first full month after permit issuance plus the previous 11-month totals.
- D. Calculate and record rolling 12-month totals for total solvent usage in gallons.
- E. Record on a monthly basis the total soybeans crushed in tons.
- F. Calculate and record the rolling 12-months totals of the amount of soybeans crushed in tons.

G. Recordkeeping for NESHAP Subpart GGGG shall be done according to 40 CFR §63.2862 and 40 CFR §63.2863.

H. Reporting for NESHAP Subpart GGGG shall be done according to 40 CFR §63.2861.

I. Record all maintenance and repair completed on the MOS.

J. The facility shall comply with the recordkeeping requirements of 40 CFR §52.21(r)(6) and (7) as illustrated in 16.E.

Authority for Requirement: LCPH ATI 5535/PTO 5615

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 57

Stack Opening, (inches, dia.): 18 x 27

Exhaust Flow Rate (acfm): 300

Exhaust Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: LCHP ATI 5535/ PTO 5615

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 012

Associated Equipment

Associated Emission Unit ID Numbers: 012

Emissions Control Equipment ID Number: 012

Emissions Control Equipment Description: Mineral Oil Absorber

Emission Unit vented through this Emission Point: 012

Emission Unit Description: Extraction Process

Raw Material/Fuel: Hexane

Rated Capacity: 115 tons/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: VOC

Emission Limit(s): 494 tpy, 0.175 gal/ton

Authority for Requirement: LCPH ATI 5535/PTO 5615

Consent Decree 05-CV-02037

Pollutant: HAP (single)

Emission Limit(s): 0.2 gal/ton

Authority for Requirement: 40 CFR 63.2840 Subpart GGGG

567 IAC 23.1(3) "cg"

LCO10.9 (4) "gggg"

LCPH ATI 5535/PTO 5615

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device

A mineral oil scrubber shall be used to control VOC/VHAP emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in condition 16 shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 5536/PTO 5616

NSPS and NESHAP Applicability

In general, the federal standards of performance for new stationary sources (new source performance standards) shall be applicable as specified in LCCO 10.9.2 and 567 IAC 23.1(2).

The federal standards for hazardous air pollutants (national emission standards for hazardous air pollutants) shall be applicable as specified in LCCO 10.9.3 and 567 IAC 23.1(3). The federal standards for hazardous air pollutants for source categories (national emission standards for hazardous air pollutants for source categories) shall be applicable as specified in LCCO 10.9.4 and 567 IAC 23.1(4).

A. The source is not subject to an NSPS at this time.

B. This source is subject to the requirements the National Emission Standards for Hazardous Air Pollutants (NESHAP), Subpart A, General Provisions and Subpart GGGG – Solvent Extraction for Vegetable Oil Production.

Authority for Requirement: LCPH ATI 5536/PTO 5616

Operating Limits

A. This facility shall meet requirements of 40 CFR 63 §§ 1-16 [NESHAP Subpart A] to comply with LCCO 10.9(4).

B. This facility shall comply with the requirements of NESHAP Subpart GGGG by meeting the standards of 40 CFR §63.2840 to comply with LCCO 10.9(4)(gggg).

C. This facility shall comply with the requirements of NESHAP Subpart GGGG by meeting the compliance requirements of 40 CFR §63.2850 through 40 CFR §63.2855 to comply with LCCO 10.9(4)(gggg).

D. The maximum VOC content of any solvent shall not exceed 5.6 pounds per gallon.

E. The maximum solvent usage shall not exceed 176,295 gallons per 12-month rolling total.

F. For purposes of staying a synthetic minor project for Prevention of Significant Deterioration (PSD), the owner or operator shall have the following limits for a period ten (10) years from startup following the replacement of the economizer:

a) Record the startup date of the extraction process following the modifications. This date signifies the beginning of the ten (10) year monitoring and recordkeeping period.

b) The baseline actual emissions for the project are equal to 372.78 tons/year of VOC. The baseline actual emissions shall remain unchanged throughout the ten (10) year period.

c) The owner or operator shall determine the actual emissions for the project by summing the emissions each month from the extraction process (EU 12).

d) Actual emissions minus the baseline actual emissions from the project shall not exceed the following PSD significant levels: 39.4 tons per 12-month rolling period for VOC. If the emission increases from the project upon the date of startup following the extraction process modifications, do not exceed the PSD significance levels, the PSD significance limits shall no longer apply after the 10-year period. If these limits are exceeded prior to the 10-year period date, the owner or operator shall submit a report pursuant to 567 IAC 33.3(18)"f"(7).

Authority for Requirement: LCPH ATI 5536/PTO 5616

Operating Condition Monitoring and Recordkeeping

If not specified elsewhere, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. A Material Safety Data Sheet (MSDS) of all solvent(s) used in the extraction process.

- B. Record the VOC and VHAP content of the solvent upon each new shipment of solvent to the facility in pounds per gallon.
 - C. Record on a monthly basis the total solvent usage in gallons. Beginning with the first full month after permit issuance, Cargill will total the 12-month rolling total by using the first full month after permit issuance plus the previous 11-month totals.
 - D. Calculate and record rolling 12-month totals for total solvent usage in gallons.
 - E. Record on a monthly basis the total soybeans crushed in tons.
 - F. Calculate and record the rolling 12-months totals of the amount of soybeans crushed in tons.
 - G. Recordkeeping for NESHAP Subpart GGGG shall be done according to 40 CFR 63.2862 and 40 CFR §63.2863.
 - H. Reporting for NESHAP Subpart GGGG shall be done according to 40 CFR §63.2861.
 - I. Record all maintenance and repair completed on the MOS.
 - J. The facility shall comply with the recordkeeping requirements of 40 CFR §52.21(r)(6) and (7) as illustrated in 16.E.
- Authority for Requirement: LCPH ATI 5536/PTO 5616

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 54
- Stack Opening, (inches, dia.): 4
- Exhaust Flow Rate (acfm): 300
- Exhaust Temperature (°F): Ambient
- Discharge Style: Horizontal

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Authority for Requirement: LCPH ATI 5536/PTO 5616

- Agency Approved Operation & Maintenance Plan Required?** Yes No
- Facility Maintained Operation & Maintenance Plan Required?** Yes No
- Compliance Assurance Monitoring (CAM) Plan Required?** Yes No

CAM Plan for EP 11 & 12 Mineral Oil Scrubber for Hexane

I. Background

A. Emissions Unit

- Description: Extraction Process
- Identification: EP 11 & 12
- Facility: Cargill Soybean East Plant
Cedar Rapids, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: LCPH ATI 5535 / PTO 5615 (EP 11)
LCPH ATO 5536 / PTO 5616 (EP 12)
VOC emission limit: 494 tons/yr
Monitoring Requirements: Mineral oil scrubber (MOS) operating parameters.

C. Control Technology

Mineral oil scrubber (MOS)

II. Monitoring Approach

A. Indicators

Calculated 12-month rolling total hexane losses, mineral oil temperature and flow rate will be used as indicators.

B. Measurement Approach

Mass-balance calculations will use the facility's hexane purchase records. The scrubber's mineral oil flow rate and temperature are monitored.

C. Indicator Ranges

The indicator levels for the scrubber are a mineral oil flow rate between 5 and 25 gallons per minute and a mineral oil temperature between 40 degrees F and 100 degrees

D. QIP (Quality Improvement Plan) Threshold

The Quality Improvement Plan (QIP) thresholds are six excursions total of either the mineral oil flow rate or the mineral oil temperature in one six month reporting period or one instance of 12-month rolling total hexane emissions greater than 494 tons. The 12-month rolling totals will be recalculated and recorded each month.

E. Performance Criteria

Data representativeness: The mineral oil scrubber is designed to operate at maximum control efficiency at specific mineral oil flow rate and temperature ranges. The scrubber equipment has real-time sensors for both flow rate and temperature, which are recorded a minimum of once per day. If the flow rate or temperature have drifted out of the optimal efficiency range, this is an indication of the potential for increased hexane emissions.

Facility hexane losses, determined from hexane make-up solvent purchases, is representative of the scrubber's operation.

Verification of operational status:

Mineral oil flow rate and temperature are monitored to insure proper operation of the mineral oil scrubber. The scrubber equipment will be maintained in good working condition according to the manufacturer's O&M procedures.

QA/QC practices and criteria:

Monitoring the mineral oil flow rate and temperature will serve to alert the facility in circumstances when the mineral oil scrubber experiences short-term excursions. Any recorded flow rate or temperature outside of the indicator range will signify an excursion.

When an excursion occurs, corrective action will be initiated within 8 hours, beginning with an evaluation of the occurrence to determine the action required. After any necessary corrective action has been taken, a follow-up check will be performed to insure that the indicator is within the indicator range.

Monitoring frequency and data collection procedures:

The mineral oil flow rate and temperature sensors provide real-time readings which are recorded a minimum of once per day when the facility's emission unit is in operation.

Facility hexane losses will be calculated using material mass balance. Hexane losses will be assumed to equal all new hexane purchases made to maintain the facility's inventory. Each month, the facility calculates and records the 12-month rolling total hexane emissions for the facility.

Emission Point ID Number: 019

Associated Equipment

Associated Emission Unit ID Numbers: 019
Emissions Control Equipment ID Number: 019
Emissions Control Equipment Description: Fabric Filter

Emission Unit vented through this Emission Point: 019
Emission Unit Description: Meal Grinding and Sifting
Raw Material/Fuel: Soybean
Rated Capacity: 115 tons/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCO 10.7

Pollutant: Particulate Matter
Emission Limit(s): 2.66 lbs/hr
Authority for Requirement: LCPH ATI 2630 / PTO 2469

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Air flow to the fabric filter shall be limited to 15,500 cfm.
Authority for Requirement: LCPH ATI 2630 / PTO 2469

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will

be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

CAM Plan for EP-019 Meal Grinding Dust Collector Fabric Filter

I. Background

A. Emissions Unit

Description: Meal Grinding Dust Collector
Identification: EP 019
Facility: Cargill Cedar Rapids Soybean East Plant
Cedar Rapids, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: Permit LCPH ATI 2630/ PTO 2469
Opacity emission limit: 20%
Particulate emission limit: 2.66 lbs/hr
Current Monitoring requirements: Stack Testing, weekly opacity readings.

C. Control Technology

Fabric Filter

II. Monitoring Approach

A. Indicator

Daily pressure drop checks will be used as an indicator.

B. Measurement Approach

Pressure drop will be checked daily when operating to ensure that the pressure drop is in the range of 2 to 8 inches of water during the material handling operation of the unit.

C. Indicator Range

Pressure drop should be no less than 2 inches of water.

Pressure drop should not exceed 8 inches of H₂O.

D. QIP (Quality Improvement Plan) Threshold

The QIP threshold is six excursions in a six month reporting period

E. Performance Criteria

Data representativeness:

Pressure drop less than 2 inches of water or greater than 8 inches of water would indicate decrease in the performance the baghouse and potentially indicate an increase of particulate emissions.

Verification of operational status:

Records of pressure drop readings will be maintained for five years.

QA/QC practices and criteria:

The facility shall check the pressure drop daily when the emission unit on this emission point is in operation. If a pressure drop less than 2 inches of water or greater than 8 inches of water is observed, corrective action will be taken within 8 hours.

Monitoring frequency and data

Collection procedure:

Pressure drop readings shall be conducted daily during a period when the emission unit on this emission point is in operation. Records of the readings shall be maintained for five years.

Emission Point ID Number: 020

Associated Equipment

Associated Emission Unit ID Numbers: 020
Emissions Control Equipment ID Number: 020
Emissions Control Equipment Description: Fabric Filter

Emission Unit vented through this Emission Point: 020
Emission Unit Description: Hull Aspiration
Raw Material/Fuel: Soybean Hulls
Rated Capacity: 115 tons/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCO 10.7

Pollutant: Particulate Matter
Emission Limit(s): 0.02 gr/scf, 2.14 lbs/hr, 9.4 tpy
Authority for Requirement: LCPH ATI 3063 / PTO 3045

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device

A bag filter dust collector shall be maintained on this source in a good operating condition. A preventative maintenance plan shall be followed to ensure continued compliance with the emission limit stated in Condition 4 (Emission Limit) of this permit.

This source shall install a pressure drop gauge for the baghouse in an easily accessible area. This gauge shall be maintained in a good operating condition at all times.
Authority for Requirement: LCPH ATI 3063 / PTO 3045

Operating Limits

Airflow to the baghouse shall be limited to 12,500 scfm.
Authority for Requirement: LCPH ATI 3063 / PTO 3045

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant – PM-10

1st Stack Test to be Completed by – January 1, 2014 - within the first two and a half years of permit term

Test Method - Method 201A with 202 (40 CFR 51) or approved alternative

Authority for Requirement - Authority for Requirement - 567 IAC 22.108(3)

Pollutant – Particulate Matter

1st Stack Test to be Completed by – January 1, 2014 - within the first two and a half years of permit term

Test Method – Iowa Compliance Sampling Manual or approved alternative

Authority for Requirement – 567 IAC 22.108(3)

The owner of this equipment or the owner’s authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required?

Yes No

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

**CAM Plan for EP-020 Soybean Hull Aspiration and Cracking Dust Collector
Fabric Filter**

I. Background

A. Emissions Unit

Description: Soybean Hull Aspiration and Cracking Dust Collector
Identification: EP 020
Facility: Cargill Cedar Rapids Soybean East Plant
Cedar Rapids, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: Permit LCPH ATI 3063/ PTO 3045
Opacity emission limit: 20%
Particulate emission limit: 0.02 gr/scf, 2.14 lbs/hr, 9.4 tpy
Current Monitoring requirements: Stack Testing, weekly opacity readings.

C. Control Technology

Fabric Filter

II. Monitoring Approach

A. Indicator

Daily pressure drop checks will be used as an indicator.

B. Measurement Approach

Pressure drop will be checked daily when operating to ensure that the pressure drop is in the range of 2 to 8 inches of water during the material handling operation of the unit.

C. Indicator Range

Pressure drop should be no less than 2 inches of water.
Pressure drop should not exceed 8 inches of H₂O.

D. QIP (Quality Improvement Plan) Threshold

The QIP threshold is six excursions in a six month reporting period

E. Performance Criteria

Data representativeness:

Pressure drop less than 2 inches of water or greater than 8 inches of water would indicate decrease in the performance the baghouse and potentially indicate an increase of particulate emissions.

Verification of operational status:

Records of pressure drop readings will be maintained for five years.

QA/QC practices and criteria:

The facility shall check the pressure drop daily when the emission unit on this emission point is in operation. If a pressure drop less than 2 inches of water or greater than 8 inches of water is observed, corrective action will be taken within 8 hours.

Monitoring frequency and data
Collection procedure:

Pressure drop readings shall be conducted daily during a period when the emission unit on this emission point is in operation. Records of the readings shall be maintained for five years.

Emission Point ID Number: 021

Associated Equipment

Associated Emission Unit ID Numbers: 021
Emissions Control Equipment ID Number: 021
Emissions Control Equipment Description: Fabric Filter

Emission Unit vented through this Emission Point: 021
Emission Unit Description: Hull Aspiration
Raw Material/Fuel: Soybean Hulls
Rated Capacity: 2 tons/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCO 10.7

Pollutant: Particulate Matter
Emission Limit(s): 0.86 lbs/hr
Authority for Requirement: LCPH ATI 2474 / PTO 2367

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.4(7)
LCO 10.9(1)"g"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Hours of operation: 168 hours per week
Authority for Requirement: LCPH ATI 2474 / PTO 2367

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant – PM-10

1st Stack Test to be Completed by – January 1, 2014 - within the first two and a half years of permit term

Test Method - Method 201A with 202 (40 CFR 51) or approved alternative

Authority for Requirement - Authority for Requirement - 567 IAC 22.108(3)

Pollutant – Particulate Matter

1st Stack Test to be Completed by – January 1, 2014 - within the first two and a half years of permit term

Test Method – Iowa Compliance Sampling Manual or approved alternative

Authority for Requirement – 567 IAC 22.108(3)

The owner of this equipment or the owner’s authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility’s implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

CAM Plan for EP-021 Dehulling Soybeans Dust Collector Fabric Filter

I. Background

A. Emissions Unit

Description: Dehulling Soybeans Dust Collector

Identification: EP 021

Facility: Cargill Cedar Rapids Soybean East Plant
Cedar Rapids, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: Permit LCPH ATI 2474/ PTO 2367

Opacity emission limit: 20%

Particulate emission limit: 0.86 lbs/hr, 0.1 gr/dscf

Current Monitoring requirements: Stack Testing, weekly opacity readings.

C. Control Technology

Fabric Filter

II. Monitoring Approach

A. Indicator

Daily pressure drop checks will be used as an indicator.

B. Measurement Approach

Pressure drop will be checked daily when operating to ensure that the pressure drop is in the range of 0.25 to 6 inches of water during the material handling operation of the unit.

C. Indicator Range

Pressure drop should be no less than 0.25 inches of water.

Pressure drop should not exceed 6 inches of H₂O.

D. QIP (Quality Improvement Plan) Threshold

The QIP threshold is six excursions in a six month reporting period

E. Performance Criteria

Data representativeness: Pressure drop less than 0.25 inches of water or greater than 6 inches of water would indicate decrease in the performance the baghouse and

potentially indicate an increase of particulate emissions.

Verification of operational status: Records of pressure drop readings will be maintained for five years.

QA/QC practices and criteria: The facility shall check the pressure drop daily when the emission unit on this emission point is in operation. If a pressure drop less than 0.25 inches of water or greater than 6 inches of water is observed, corrective action will be taken within 8 hours.

Monitoring frequency and data Collection procedure: Pressure drop readings shall be conducted daily during a period when the emission unit on this emission point is in operation. Records of the readings shall be maintained for five years.

Emission Point ID Number: 025

Associated Equipment

Associated Emission Unit ID Numbers: 025
Emissions Control Equipment ID Number: 025
Emissions Control Equipment Description: Fabric Filter

Emission Unit vented through this Emission Point: 025
Emission Unit Description: Rail Loadout Aspiration
Raw Material/Fuel: Soybean Meal
Rated Capacity: 97 ton/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 10%
Authority for Requirement: LCPH ATI 3637 / PTO 3506

Pollutant: PM-10
Emission Limit(s): 0.02 gr./dscf, 0.34 lbs/hr
Authority for Requirement: LCPH ATI 3637 / PTO 3506

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirements: 567 IAC 23.4(7)
LCO 10.9(1)"g"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device

A bag filter dust collector shall be maintained on this source in a good operating condition. A preventative maintenance plan shall be followed to ensure continued compliance with the emission limit in this permit.

The pressure drop gauge for the baghouse shall remain in an easily accessible area. This gauge shall be maintained in good operating condition at all times.
Authority for Requirement: LCPH ATI 3637 / PTO 3506

Operating Limits:

- Airflow to the baghouse shall be limited to 2000 scfm. Any increase in airflow would be considered a major modification and would necessitate a new ATI permit.
- The source shall be maintained so no fugitive dust is generated at the point of loading and/or any other point throughout the process.

Authority for Requirement: LCPH ATI 3637 / PTO 3506

Compliance Monitoring:

The following information shall be monitored:

- Daily pressure drop readings and/or visual check.

All monitors shall be easily accessible to air pollution personnel.

Authority for Requirement: LCPH ATI 3637 / PTO 3506

Reporting & Record keeping:

A logbook of operations for this source shall be maintained. The following information shall be recorded and kept on site for a period of no less than five (5) years.

- Daily pressure drop readings and /or visual check

These records shall be available on site for viewing by air pollution control personnel.

Authority for Requirement: LCPH ATI 3637 / PTO 3506

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >10 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required?

Yes No

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 026

Associated Equipment

Associated Emission Unit ID Numbers: 026
Emissions Control Equipment ID Number: 026
Emissions Control Equipment Description: Fabric Filter

Emission Unit vented through this Emission Point: 026
Emission Unit Description: Truck Loadout Aspiration
Raw Material/Fuel: Soybean Hulls
Rated Capacity: 60 tons/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCO 10.7

Pollutant: Particulate Matter
Emission Limit(s): 2.06 lb/hr
Authority for Requirement: LCPH ATI 2626 / PTO 2470

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Hours of operation: 80 hours per week
Authority for Requirement: LCPH ATI 2626 / PTO 2470

The owner or operator shall record the hours of operation and calculate the 12-month rolling total for this source on a monthly basis.

Authority for Requirement: 567 IAC 22.108(4)

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing⁽¹⁾:

Pollutant – Particulate Matter

1st Stack Test to be Completed by – January 1, 2014 - within the first two and a half years of permit term

Test Method – Iowa Compliance Sampling Manual or approved alternative
Authority for Requirement – 567 IAC 22.108(3)

⁽¹⁾ Stack testing for this source is only required if the hours of operation exceed 876 hours per year based on a twelve month rolling total.

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

CAM Plan for EP-026 Hull Loadout Dust Collector Fabric Filter

I. Background

A. Emissions Unit

Description: Hull Loadout Dust Collector
Identification: EP 026
Facility: Cargill Cedar Rapids Soybean East Plant
Cedar Rapids, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: Permit LCPH ATI 2626/ PTO 2470
Opacity emission limit: 20%
Particulate emission limit: 2.06 lbs/hr
Current Monitoring requirements: Stack Testing, weekly opacity readings.

C. Control Technology

Fabric Filter

II. Monitoring Approach

A. Indicator

Daily pressure drop checks will be used as an indicator.

B. Measurement Approach

Pressure drop will be checked daily when operating to ensure that the pressure drop is in the range of 2 to 8 inches of water during the material handling operation of the unit.

C. Indicator Range

Pressure drop should be no less than 2 inches of water.
Pressure drop should not exceed 8 inches of H₂O.

D. QIP (Quality Improvement Plan) Threshold

The QIP threshold is six excursions in a six month reporting period

E. Performance Criteria

Data representativeness: Pressure drop less than 2 inches of water or greater than 8 inches of water would indicate decrease in the performance the baghouse and potentially indicate an increase of particulate emissions.

Verification of operational status: Records of pressure drop readings will be maintained for five years.

QA/QC practices and criteria:

The facility shall check the pressure drop daily when the emission unit on this emission point is in operation. If a pressure drop less than 2 inches of water or greater than 8 inches of water is observed, corrective action will be taken within 8 hours.

Monitoring frequency and data
Collection procedure:

Pressure drop readings shall be conducted daily during a period when the emission unit on this emission point is in operation. Records of the readings shall be maintained for five years.

Emission Point ID Number: 030

Associated Equipment

Associated Emission Unit ID Numbers: 030
Emissions Control Equipment ID Number: 030
Emissions Control Equipment Description: Fabric Filter

Emission Unit vented through this Emission Point: 030
Emission Unit Description: Pellet Cooling Aspiration
Raw Material/Fuel: Soybean Meal
Rated Capacity: 25 tons/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCO 10.7

Pollutant: Particulate Matter
Emission Limit(s): 2.4 lbs/hr
Authority for Requirement: LCPH ATI 2656 / PTO 2634

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

The flow rate at this emission point shall be limited at 14,000 cfm.
Authority for Requirement: LCPH ATI 2656 / PTO 2634

Monitoring Requirements

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

CAM Plan for EP-030 Hull Processing and Cooling Dust Collector Fabric Filter

I. Background

A. Emissions Unit

Description: Hull Processing and Cooling Dust Collector
Identification: EP 030
Facility: Cargill Cedar Rapids Soybean East Plant
Cedar Rapids, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: Permit LCPH ATI 2656/ PTO 2634
Opacity emission limit: 20%
Particulate emission limit: 2.4 lbs/hr
Current Monitoring requirements: Stack Testing, weekly opacity readings.

C. Control Technology

Fabric Filter

II. Monitoring Approach

A. Indicator

Daily pressure drop checks will be used as an indicator.

B. Measurement Approach

Pressure drop will be checked daily when operating to ensure that the pressure drop is in the range of 2 to 8 inches of water during the material handling operation of the unit.

C. Indicator Range

Pressure drop should be no less than 2 inches of water.

Pressure drop should not exceed 8 inches of H₂O.

D. QIP (Quality Improvement Plan) Threshold

The QIP threshold is six excursions in a six month reporting period

E. Performance Criteria

Data representativeness:

Pressure drop less than 2 inches of water or greater than 8 inches of water would indicate decrease in the performance the baghouse and potentially indicate an increase of particulate emissions.

Verification of operational status:

Records of pressure drop readings will be maintained for five years.

QA/QC practices and criteria:

The facility shall check the pressure drop daily when the emission unit on this emission point is in operation. If a pressure drop less than 2 inches of water or greater than 8 inches of water is observed, corrective action will be taken within 8 hours.

Monitoring frequency and data

Collection procedure:

Pressure drop readings shall be conducted daily during a period when the emission unit on this emission point is in operation. Records of the readings shall be maintained for five years.

Emission Point ID Number: 031

Associated Equipment

Associated Emission Unit ID Numbers: 031
Emissions Control Equipment ID Number: 031
Emissions Control Equipment Description: Fabric Filter

Emission Unit vented through this Emission Point: 031
Emission Unit Description: New Elevator B Dust Collection
Raw Material/Fuel: Soybean
Rated Capacity: 210 tons/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 0%

Authority for Requirement: 40 CFR 60.302(b)(2) Subpart DD
567 IAC 23.1(2) ooo
LCO10.9 (2) a (67)
LCPH ATI 974 / PTO 1475

Pollutant: PM-10

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: LCPH ATI 974 / PTO 1475

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: 40 CFR 60.302(b)(2) Subpart DD
567 IAC 23.1(2) ooo
LCO 10.9(2) a (67)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device:

A bag filter dust collector shall be maintained on this source in a good operating condition. A preventative maintenance plan shall be followed to ensure continued compliance with the emission limits stated above.

This source shall have a pressure drop gauge for the baghouse in an easily accessible area. This gauge shall be maintained in a good operating condition at all times.

Authority for Requirement: LCPH ATI 974 / PTO 1475

Operating Limits:

Airflow to the baghouse shall be limited to 9,100 dscfm. Any increase in airflow would be considered a modification and would necessitate a new authorization to install permit.

The maximum process rate for this source shall be limited to 210 tons/hr.

Authority for Requirement: LCPH ATI 974 / PTO 1475

NSPS Requirements:

Method 9 and the procedures in 40 CFR 60.11(b) shall be used to determine opacity. The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR 60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1(2)

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant – Particulate Matter

1st Stack Test to be Completed by – January 1, 2014 - within the first two and a half years of permit term

Test Method – Iowa Compliance Sampling Manual or approved alternative

Authority for Requirement – 567 IAC 22.108(3)

The owner of this equipment or the owner’s authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in

the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >0 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

CAM Plan for EP-031 Hull Processing and Cooling Dust Collector Fabric Filter

I. Background

A. Emissions Unit

Description: New Elevator B Dust Collector

Identification: EP 031

Facility: Cargill Cedar Rapids Soybean East Plant
Cedar Rapids, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: Permit LCPH ATI 974/ PTO 1475
Opacity emission limit: 0%
PM-10 emission limit: 0.01 gr/dscf
Particulate emission limit: 0.01 gr/dscf
Current Monitoring requirements: Stack Testing, weekly opacity readings.

C. Control Technology

Fabric Filter

II. Monitoring Approach

A. Indicator

Daily pressure drop checks will be used as an indicator.

B. Measurement Approach

Pressure drop will be checked daily when operating to ensure that the pressure drop is in the range of 0.25 to 4 inches of water during the material handling operation of the unit.

C. Indicator Range

Pressure drop should be no less than 0.25 inches of water.
Pressure drop should not exceed 4 inches of H₂O.

D. QIP (Quality Improvement Plan) Threshold

The QIP threshold is six excursions in a six month reporting period

E. Performance Criteria

Data representativeness: Pressure drop less than 0.25 inches of water or greater than 4 inches of water would indicate decrease in the performance the baghouse and potentially indicate an increase of particulate emissions.

Verification of operational status: Records of pressure drop readings will be maintained for five years.

QA/QC practices and criteria: The facility shall check the pressure drop daily when the emission unit on this emission point is in operation. If a pressure drop less than 0.25 inches of water or greater than 4 inches of water is observed, corrective action will be taken within 8 hours.

Monitoring frequency and data
Collection procedure:

Pressure drop readings shall be conducted daily during a period when the emission unit on this emission point is in operation. Records of the readings shall be maintained for five years.

Emission Point ID Number: 034

Associated Equipment

Associated Emission Unit ID Numbers: 034
Emissions Control Equipment ID Number: 034
Emissions Control Equipment Description: Fabric Filter

Emission Unit vented through this Emission Point: 034
Emission Unit Description: Meal Tank #3 DC
Raw Material/Fuel: Soybean Meal
Rated Capacity: 115 tons/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCO 10.7
LCPH ATI 5088/PTO 5113

Pollutant: PM-10
Emission Limit(s): 0.055 lbs/hr
Authority for Requirement: LCPH ATI 5088/PTO 5113

Pollutant: PM
Emission Limit(s): 0.055 lbs/hr, 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.4(7)
LCO 10.9(1)"g"
LCPH ATI 5088/PTO 5113

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits

A. The minimum pressure drop across the baghouse shall be 0.5 inches of water.
Authority for Requirement: LCPH ATI 5088/PTO 5113

Operating Condition Monitoring and Recordkeeping

A. Monitor and record pressure drop reading for the baghouse.
B. Record maintenance and repair completed on the control equipment.

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 5088/PTO 5113

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 100

Stack Opening, (inches, dia.): 10

Exhaust Flow Rate (acfm): 320

Exhaust Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: LCPH ATI 5088/PTO 5113

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required?

Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 036

Associated Equipment

Associated Emission Unit ID Numbers: 036
Emissions Control Equipment ID Number: 036
Emissions Control Equipment Description: Fabric Filter

Emission Unit vented through this Emission Point: 036
Emission Unit Description: Meal Tank #5 DC
Raw Material/Fuel: Soybean Meal
Rated Capacity: 115 tons/hr (facility crush rate)

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCO 10.7
LCPH ATI 5089/PTO 5114

Pollutant: PM-10
Emission Limit(s): 0.055 lbs/hr
Authority for Requirement: LCPH ATI 5089/PTO 5114

Pollutant: PM
Emission Limit(s): 0.055 lbs/hr, 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.4(7)
LCO 10.9(1)"g"
LCPH ATI 5089/PTO 5114

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits

A. The minimum pressure drop across the baghouse shall be 0.5 inches of water.
Authority for Requirement: LCPH ATI 5089/PTO 5114

Operating Condition Monitoring and Recordkeeping

A. Monitor and record pressure drop reading for the baghouse.
B. Record maintenance and repair completed on the control equipment.

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

Authority for Requirement: LCPH ATI 5089/PTO 5114

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 70

Stack Opening, (inches, dia.): 10

Exhaust Flow Rate (acfm): 320

Exhaust Temperature (°F): Ambient

Discharge Style: Horizontal

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Authority for Requirement: LCPH ATI 5089/PTO 5114

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 040

Associated Equipment

Associated Emission Unit ID Numbers: 040
Emissions Control Equipment ID Number: 040
Emissions Control Equipment Description: Fabric Filter

Emission Unit vented through this Emission Point: 040
Emission Unit Description: Grain Dryer Aspirator Dust Collector
Raw Material/Fuel: Soybean
Rated Capacity: 80 tons/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 0%
Authority for Requirement: 40 CFR 60.302(b)(2) Subpart DD
567 IAC 23.1(2) ooo
LCO10.9 (2) a (67)

Pollutant: Particulate Matter
Emission Limit(s): 0.01 gr./dscf
Authority for Requirement: 40 CFR 60.302(b)(2) Subpart DD
567 IAC 23.1(2) ooo
LCO10.9 (2) a (67)

Pollutant: Particulate Matter
Emission Limit(s): 1.54 lbs/hr
Authority for Requirement: LCPH ATI 3708/PTO 3556

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Equipment Parameters:

A bag filter dust collector shall be maintained on this source in a good operating condition. A preventative maintenance plan shall be followed to ensure continued compliance with the emission limit. This source shall install a pressure drop gauge for the baghouse in an easily accessible area. This gauge shall be maintained in a good operating condition at all times.
Authority for Requirement: LCPH ATI 3708 / PTO 3556

Operating Limits:

Air flow to the baghouse shall be limited to 9000 scfm. Any increase in airflow would be considered a major modification and trigger a new ATI.

The source shall be maintained so no fugitive dust is generated at the point of loading and/or any other point throughout the process.

Authority for Requirement: LCPH ATI 3708 / PTO 3556

Compliance Monitoring:

Daily pressure drop readings and/or visual check. All monitors shall be easily accessible to air pollution personnel.

Authority for Requirement: LCPH ATI 3708 / PTO 3556

Reporting & Record keeping:

A logbook of operations for this source shall be maintained. The following information shall be recorded and kept on site for at least five (5) years.

- Daily pressure drop readings and/or visual check.

These records shall be available on site for viewing by air pollution control personnel.

Authority for Requirement: LCPH ATI 3708 / PTO 3556

NSPS Requirements:

Method 9 and the procedures in 40 CFR 60.11(b) shall be used to determine opacity. The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR 60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1(2)

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant – Particulate Matter

1st Stack Test to be Completed by – January 1, 2014 - within the first two and a half years of permit term

Test Method – Iowa Compliance Sampling Manual or approved alternative

Authority for Requirement – 567 IAC 22.108(3)

The owner of this equipment or the owner’s authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >0 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility’s implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

CAM Plan for EP-040 Grain Dryer Aspirator Fabric Filter

I. Background

A. Emissions Unit

Description: Grain Dryer Aspirator
Identification: EP 040
Facility: Cargill Cedar Rapids Soybean East Plant
Cedar Rapids, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: Permit LCPH ATI 3708/ PTO 3556
Opacity emission limit: 0%
PM-10 emission limit: 1.54 lbs/hr
Particulate emission limit: 0.01 gr/dscf
Current Monitoring requirements: Stack Testing, weekly opacity readings.

II. Monitoring Approach

A. Indicator

Daily pressure drop checks will be used as an indicator.

B. Measurement Approach

Pressure drop will be checked daily when operating to ensure that the pressure drop is in the range of 2 to 8 inches of water during the material handling operation of the unit.

C. Indicator Range

Pressure drop should be no less than 2 inches of water.
Pressure drop should not exceed 8 inches of H₂O.

D. QIP (Quality Improvement Plan) Threshold

The QIP threshold is six excursions in a six month reporting period

E. Performance Criteria

Data representativeness: Pressure drop less than 2 inches of water or greater than 8 inches of water would indicate decrease in the performance the baghouse and potentially indicate an increase of particulate emissions.

Verification of operational status: Records of pressure drop readings will be maintained for five years.

QA/QC practices and criteria: The facility shall check the pressure drop daily when the emission unit on this emission point is in operation. If a pressure drop less than 2 inches of water or greater than 8 inches of water is observed, corrective action will be taken within 8 hours.

Monitoring frequency and data Collection procedure: Pressure drop readings shall be conducted daily during a period when the emission unit on this emission point is in operation. Records of the readings shall be maintained for five years.

Emission Point ID Number: 041

Associated Equipment

Associated Emission Unit ID Numbers: 041
Emissions Control Equipment ID Number: 041
Emissions Control Equipment Description: Fabric Filter

Emission Unit vented through this Emission Point: 041
Emission Unit Description: Prep Vacuum Cleaning
Raw Material/Fuel: Soybean Meal
Rated Capacity: 0.5 tons/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCO10.7

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./scf
Authority for Requirement: 567 IAC 23.4(7)
LCO 10.9(1)"g"

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to

retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 042

Associated Equipment

Associated Emission Unit ID Numbers: 042
Emissions Control Equipment ID Number: 042
Emissions Control Equipment Description: Fabric Filter

Emission Unit vented through this Emission Point: 042
Emission Unit Description: Clay Tank Vent
Raw Material/Fuel: Clay
Rated Capacity: 1.0 ton/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCO 10.7

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"(2)
LCO 10.9(1)"a"

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation

attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 043

Associated Equipment

Associated Emission Unit ID Numbers: 043
Emissions Control Equipment ID Number: 043
Emissions Control Equipment Description: Fabric Filter

Emission Unit vented through this Emission Point: 043
Emission Unit Description: 44 Meal Truck Loadout
Raw Material/Fuel: Soybean Meal
Rated Capacity: 187.5 tons/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCPH ATI 2327 / PTO 2257
LCO 10.7

Pollutant: PM-10
Emission Limit(s): 5.85 tpy, 2.25 lbs/hr, 0.02 gr/scf
Authority for Requirement: LCPH ATI 2327 / PTO 2257

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.4(7)
LCO 10.9(1)"g"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device:

A bag filter dust collector shall be maintained on this source in a good operating condition. A preventative maintenance plan shall be followed to ensure continued compliance with the emission limits of this permit.

This source shall have a pressure drop gauge for the baghouse in an easily accessible area. This gauge shall be maintained in a good operating condition at all times.

Authority for Requirement: LCPH ATI 2327 / PTO 2257

Operating Limits:

Airflow to the baghouse shall be limited to 17,500 scfm. Any increase in airflow would be considered a modification and would necessitate a new authorization to install permit.

The maximum process (loadout) rate shall be limited to 375,000 lbs/hr.

This source shall be limited to a monthly average of 100 hours of operation per week.

The source shall be maintained so no fugitive dust is generated at the point of loading and/or any other point throughout the process.

Authority for Requirement: LCPH ATI 2327 / PTO 2257

Compliance Monitoring:

The following information shall be monitored:

- Hours of operation
 - Process (loadout) rate lbs/hr
- All monitors shall be easily accessible to air pollution personnel.

Authority for Requirement: LCPH ATI 2327 / PTO 2257

Record keeping Requirements:

A logbook of operations for this source shall be maintained. The following information shall be recorded and kept on site for a period of no less than five years.

- Monthly average for the hours of operation per week.
- Average weekly loadout rate.

These records shall be available on site for viewing by air pollution control personnel

Authority for Requirement: LCPH ATI 2327 / PTO 2257

Reporting:

Submit a quarterly report summarizing the record keeping requirements. The report shall be submitted by the 15th day of the month following the end of a quarter (i.e. Jan. 15th, April 15th, July 15th, Oct. 15th).

Authority for Requirement: LCPH ATI 2327 / PTO 2257

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing⁽¹⁾:

Pollutant – Particulate Matter

1st Stack Test to be Completed by – January 1, 2014 - within the first two and a half years of permit term

Test Method – Iowa Compliance Sampling Manual or approved alternative

Authority for Requirement – 567 IAC 22.108(3)

⁽¹⁾ Stack testing for this source is only required if the combined hours of operation for EP 43 and EP 44 exceed 876 hours per year based on a twelve month rolling total. If the combined hours of operation for EP 43 and EP 44 exceed 876 hours of operation per year based on a twelve month rolling total, only one emission point, EP 43 or EP 44, is required to be tested. The test results for that source shall be used as a representative test for both emission points EP 43 and EP 44.

The owner of this equipment or the owner’s authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required?

Yes No

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

CAM Plan for EP-043 Meal Truck Loadout Fabric Filter

I. Background

A. Emissions Unit

Description: Meal Truck Loadout
Identification: EP 043
Facility: Cargill Cedar Rapids Soybean East Plant
Cedar Rapids, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: Permit LCPH ATI 2327/ PTO 2257
Opacity emission limit: 20%
PM-10 5.85 tpy, 2.25 lbs/hr, 0.02 gr/scf
Particulate emission limit: 0.1 gr/dscf
Current Monitoring requirements: Stack Testing, weekly opacity readings.

II. Monitoring Approach

A. Indicator

Daily pressure drop checks will be used as an indicator.

B. Measurement Approach

Pressure drop will be checked daily when operating to ensure that the pressure drop is in the range of 2 to 8 inches of water during the material handling operation of the unit.

C. Indicator Range

Pressure drop should be no less than 2 inches of water.
Pressure drop should not exceed 8 inches of H₂O.

D. QIP (Quality Improvement Plan) Threshold

The QIP threshold is six excursions in a six month reporting period

E. Performance Criteria

Data representativeness:	Pressure drop less than 2 inches of water or greater than 8 inches of water would indicate decrease in the performance the baghouse and potentially indicate an increase of particulate emissions.
Verification of operational status:	Records of pressure drop readings will be maintained for five years.
QA/QC practices and criteria:	The facility shall check the pressure drop daily when the emission unit on this emission point is in operation. If a pressure drop less than 2 inches of water or greater than 8 inches of water is observed, corrective action will be taken within 8 hours.
Monitoring frequency and data Collection procedure:	Pressure drop readings shall be conducted daily during a period when the emission unit on this emission point is in operation. Records of the readings shall be maintained for five years.

Emission Point ID Number: 044

Associated Equipment

Associated Emission Unit ID Numbers: 044
Emissions Control Equipment ID Number: 044
Emissions Control Equipment Description: Fabric Filter

Emission Unit vented through this Emission Point: 044
Emission Unit Description: 48 Meal Truck Load-Out
Raw Material/Fuel: Soybean Meal
Rated Capacity: 187.5 tons/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCPH ATI 2326 / PTO 2258
LCO 10.7

Pollutant: PM-10
Emission Limit(s): 5.85 tpy, 2.25 lbs/hr, 0.02 gr/scf
Authority for Requirement: LCPH ATI 2326 / PTO 2258

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.4(7)
LCO 10.9(1)"g"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device:

A bag filter dust collector shall be maintained on this source in a good operating condition. A preventative maintenance plan shall be followed to ensure continued compliance with the emission limits of this permit.

This source shall have a pressure drop gauge for the baghouse in an easily accessible area. This gauge shall be maintained in a good operating condition at all times.

Authority for Requirement: LCPH ATI 2326 / PTO 2258

Operating Limits:

Airflow to the baghouse shall be limited to 17,500 scfm. Any increase in airflow would be considered a modification and would necessitate a new authorization to install permit.

The maximum process (loadout) rate shall be limited to 375,000 lbs/hr.

This source shall be limited to a monthly average of 100 hours of operation per week.

The source shall be maintained so no fugitive dust is generated at the point of loading and/or any other point throughout the process.

Authority for Requirement: LCPH ATI 2326 / PTO 2258

Compliance Monitoring:

The following information shall be monitored:

- Hours of operation
 - Process (loadout) rate lbs/hr
- All monitors shall be easily accessible to air pollution personnel.

Authority for Requirement: LCPH ATI 2326 / PTO 2258

Record keeping Requirements:

A logbook of operations for this source shall be maintained. The following information shall be recorded and kept on site for a period of no less than five years.

- Monthly average for the hours of operation per week.
- Average weekly loadout rate.

These records shall be available on site for viewing by air pollution control personnel

Authority for Requirement: LCPH ATI 2326 / PTO 2258

Reporting:

Submit a quarterly report summarizing the record keeping requirements. The report shall be submitted by the 15th day of the month following the end of a quarter (i.e. Jan. 15th, April 15th, July 15th, Oct. 15th).

Authority for Requirement: LCPH ATI 2326 / PTO 2258

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing⁽¹⁾:

Pollutant – Particulate Matter

1st Stack Test to be Completed by – January 1, 2014 - within the first two and a half years of permit term

Test Method – Iowa Compliance Sampling Manual or approved alternative

Authority for Requirement – 567 IAC 22.108(3)

⁽¹⁾ Stack testing for this source is only required if the combined hours of operation for EP 43 and EP 44 exceed 876 hours per year based on a twelve month rolling total. If the combined hours of operation for EP 43 and EP 44 exceed 876 hours of operation per year based on a twelve month rolling total, only one emission point, EP 43 or EP 44, is required to be tested. The test results for that source shall be used as a representative test for both emission points EP 43 and EP 44.

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

CAM Plan for EP-044 Meal Truck Loadout Fabric Filter

I. Background

A. Emissions Unit

Description: Meal Truck Loadout
Identification: EP 044
Facility: Cargill Cedar Rapids Soybean East Plant
Cedar Rapids, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: Permit LCPH ATI 2326/ PTO 2258
Opacity emission limit: 20%
PM-10 5.85 tpy, 2.25 lbs/hr, 0.02 gr/scf
Particulate emission limit: 0.1 gr/dscf
Current Monitoring requirements: Stack Testing, weekly opacity readings.

II. Monitoring Approach

A. Indicator

Daily pressure drop checks will be used as an indicator.

B. Measurement Approach

Pressure drop will be checked daily when operating to ensure that the pressure drop is in the range of 2 to 8 inches of water during the material handling operation of the unit.

C. Indicator Range

Pressure drop should be no less than 2 inches of water.
Pressure drop should not exceed 8 inches of H₂O.

D. QIP (Quality Improvement Plan) Threshold

The QIP threshold is six excursions in a six month reporting period

E. Performance Criteria

Data representativeness:

Pressure drop less than 2 inches of water or greater than 8 inches of water would indicate decrease in the performance the baghouse and potentially indicate an increase of particulate emissions.

Verification of operational status:

Records of pressure drop readings will be maintained for five years.

QA/QC practices and criteria:

The facility shall check the pressure drop daily when the emission unit on this emission point is in operation. If a pressure drop less than 2 inches of water or greater than 8 inches of water is observed, corrective action will be taken within 8 hours.

Monitoring frequency and data
Collection procedure:

Pressure drop readings shall be conducted daily during a period when the emission unit on this emission point is in operation. Records of the readings shall be maintained for five years.

Emission Point ID Number: 049

Associated Equipment

Associated Emission Unit ID Numbers: 49.1, 49.2, 49.3, 49.4

Emissions Control Equipment ID Number: 049

Emissions Control Equipment Description: Cyclone

Emission Unit vented through this Emission Point: 49.1

Emission Unit Description: Meal Dryer Deck 1

Raw Material/Fuel: Soybeans

Rated Capacity: 115 tons/hr

Emission Unit vented through this Emission Point: 49.2

Emission Unit Description: Meal Dryer Deck 2

Raw Material/Fuel: Soybeans

Rated Capacity: 115 tons/hr

Emission Unit vented through this Emission Point: 49.3

Emission Unit Description: Meal Dryer Deck 3

Raw Material/Fuel: Soybeans

Rated Capacity: 115 tons/hr

Emission Unit vented through this Emission Point: 49.4

Emission Unit Description: Meal Dryer Deck 4

Raw Material/Fuel: Soybeans

Rated Capacity: 115 tons/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): 20%

Authority for Requirement: LCPH ATI 5541/5617

Pollutant: PM-10

Emission Limit(s): 2.14 lbs/hr

Authority for Requirement: LCPH ATI 5541/5617

Pollutant: Particulate Matter

Emission Limit(s): 4.03 lbs/hr, 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.4(7)

LCO 10.9(1)"g"

LCPH ATI 5541/5617

Operational Limits & Requirements

Control Device

Four cyclones shall be used to control particulate emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in condition 16 shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 5541/5617

Operating Limits:

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

- A. Pressure drop across each cyclone shall be between 4 and 8 in water differential.
- B. The maximum processing rate shall be 92,000 bushels/day on a 12-month rolling average.

Authority for Requirement: LCPH ATI 5541/5617

Operating Condition Monitoring and Recordkeeping:

If not specified elsewhere, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. The owner or operator shall monitor and record “no visible emissions” observations on a weekly basis. An exceedance of ‘no visible emissions’ will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

B. The owner or operator shall monitor and record the differential pressure across each of the four cyclones.

C. Maintain a written record of weekly average process rate (bushels/hr).

Authority for Requirement: LCPH ATI 5541/5617

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 55

Stack Opening, (inches, dia.): 60.25

Exhaust Flow Rate (acfm): 65,000

Exhaust Temperature (°F): 125

Discharge Style: Vertical, unobstructed

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the

emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.
Authority for Requirement: LCPH ATI 5541/5617

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 056

Associated Equipment

Associated Emission Unit ID Numbers: 56.1, 56.2
Continuous Emissions Monitors ID Numbers: 56

Emission Unit vented through this Emission Point: 56.1
Emission Unit Description: Boiler
Raw Material/Fuel: Natural Gas
Rated Capacity: 99.9 MMBtu/hr

Emission Unit vented through this Emission Point: 56.2
Emission Unit Description: Boiler
Raw Material/Fuel: Fuel Oil
Rated Capacity: 99.9 MMBtu/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: LCPH ATI 5717/ PTO 5618

Pollutant: PM-10
Emission Limit(s): 2.35 lbs/hr,
Authority for Requirement: LCPH ATI 5717/ PTO 5618

Pollutant: Particulate Matter
Emission Limit(s): 2.35 lbs/hr, 0.352 lb/MMBTU
Authority for Requirement: LCPH ATI 5717/ PTO 5618

Pollutant: SO₂
Emission Limit(s): 5.60 lbs/hr, 500 ppmv
Authority for Requirement: LCPH ATI 5717/ PTO 5618

Pollutant: SO₂
Emission Limit(s): 0.32 lb/MMBTU
Authority for Requirement: 40 CFR 60.42b(k)(2)

Pollutant: NO_x
Emission Limit(s): 6.02 lbs/hr
Authority for Requirement: LCPH ATI 5717/ PTO 5618

Pollutant: NO_x
Emission Limit(s): 0.20 lb/MMBTU, 86 ng/J
Authority for Requirement: 40 CFR 60.44b

Pollutant: CO
Emission Limit(s): 8.39 lbs/hr
Authority for Requirement: LCPH ATI 5717/ PTO 5618

Operational Limits & Requirements

Operating Limits:

The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

- A. The fuel for this boiler is limited to pipeline quality natural gas fuel or No. 2 diesel fuel oil.
- B. Fuel usage for No. 2 diesel fuel oil shall be limited to 3,500,000 gallons per year based on a 12-month rolling total.
- C. The owner or operator shall meet the standards of 40 CFR §60.42b through 40 CFR §60.44b [NSPS Subpart Db] to comply with LCCO 10.9(2)(55).
- D. The owner or operator shall meet the testing and emission monitoring procedures of 40 CFR §60.45b through 40 CFR §60.48b [NSPS Subpart Db] to comply with LCCO 10.9(2)(55).
- C. The owner or operator shall meet the requirements of 40 CFR 60 §§ 1-19 [NSPS Subpart A] to comply with LCCO 10.9(2).

Operation parameters delineated at the time of final compliance inspections and testing shall be documented and become incorporated into the conditions of the final Permit to Operate.
Authority for Requirement: LCPH ATI 5717/ PTO 5618

Operating Condition Monitoring and Recordkeeping:

If not specified elsewhere, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

- A. The owner or operator shall record and maintain records of the amounts of each fuel combusted during each day.
- B. Calculate and record the 12-month rolling total for No. 2 fuel oil.
- C. Record the boiler steam output on a daily basis.
- D. Initial notification and recordkeeping shall be performed in accordance with 40 CFR §60.7 to comply with LCCO 10.9.2 (55).
- E. Monitoring for NSPS Subpart Db shall be done in accordance with 40 CFR §60.47b and §60.48b to comply with LCCO 10.9.2 (55).
- F. Recordkeeping for NSPS Subpart Db shall be in done in accordance with 40 CFR §60.49b to comply with LCCO 10.9.2 (55).
- G. Maintain fuel supplier certifications of the sulfur content of all fuels burned in accordance with 40 CFR §60.49b(r) to comply with LCCO 10.9.2 (55).

Authority for Requirement: LCPH ATI 5717/ PTO 5618

NSPS and NESHAP Applicability:

In general, the federal standards of performance for new stationary sources (new source performance standards) shall be applicable as specified in LCCO 10.9.2 and 567 IAC 23.1(2). The federal standards for hazardous air pollutants (national emission standards for hazardous air pollutants) shall be applicable as specified in LCCO 10.9.3 and 567 IAC 23.1(3). The federal standards for hazardous air pollutants for source categories (national emission standards for hazardous air pollutants for source categories) shall be applicable as specified in LCCO 10.9.4 and 567 IAC 23.1(4).

A. The New Source Performance Standards (NSPS), 40 CFR 60, Subpart A - General Provisions and 40 CFR 60 Subpart Db shall apply to this source pursuant to LCCO 10.9(2)"a"(55) and 567 IAC 23.1(2)"ccc" (Industrial-Commercial-Institutional Steam Generating Units).

B. This equipment is of the source category affected by the following federal regulation: National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63 Subpart DDDDD].

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

Continuous Emission Monitoring:

Emission monitoring for nitrogen oxides shall be performed in accordance with 40 CFR §60.48b to comply with LCCO 10.9.2 (55). Accordingly, the facility being subject to a NOX standard under 40 CFR §60.44b, shall demonstrated compliance in accordance with either subparagraph A or B:

A. Install, calibrate, maintain, and operate CEMS for measuring NOX and O2 (or CO2) emissions discharged to the atmosphere, and shall record the output of the system; or

B. If the owner or operator has installed a NOX emission rate CEMS to meet the requirements of part 75 of this chapter and is continuing to meet the ongoing requirements of part 75 of this chapter, that CEMS may be used to meet the requirements of this section, except that the owner or operator shall also meet the requirements of §60.49b. Data reported to meet the requirements of §60.49b shall not include data substituted using the missing data procedures in subpart D of part 75 of this chapter, nor shall the data have been bias adjusted according to the procedures of part 75 of this chapter.

The CEMS shall be installed, evaluated, and operated, and data recorded in accordance with 40 CFR §60.48b(a)-(f).

In accordance with 40 CFR §60.48b(b), the facility shall install, calibrate, maintain, and operate a CEMS on EP56, and record the output of the system for measuring nitrogen oxides (NOx) emissions discharged to the atmosphere. The system shall be designed to meet 40 CFR 60, Appendix B, Performance Specification 2 (PS2). The specifications of 40 CFR 60, Appendix F, (Quality Assurance Procedures) shall apply.

In accordance with 40 CFR §60.48b(g) the owner or operator of an affected facility that has a heat input capacity of 250 million Btu/hour or less, and which has an annual capacity factor for

natural gas having a nitrogen content of greater than 10 percent (0.10) shall comply with the provisions of paragraphs (b), (c), (d), (e)(2), (e)(3), and (f) of 40 CFR §60.48b.

In accordance with 40 CFR §60.48b(j), units that burn only gaseous fuels with potential sulfur dioxide emission rates of 0.32 lb/MMBtu heat input or less are not required to conduct PM emissions monitoring if they maintain fuel supplier certifications of the sulfur content of the fuels burned.

Authority for Requirement: LCPH ATI 5717/ PTO 5618

Reporting Requirements:

The following information shall be submitted to this department by the 30th of each month for the previous quarter (January 30, April 30, July 30 and October 30).

A. In accordance with 40 CFR §60.49b(i) a quarterly report containing the information recorded under 40 CFR §60.49b(g) shall be submitted.

B. In accordance with 40 CFR §60.45b(k) and §60.48b (j)(2), the owner or operator must provide a report containing fuel records of the sulfur content of the fuels burned, as described under §60.49b(r), which shall be submitted on a quarterly basis.

Authority for Requirement: LCPH ATI 5717/ PTO 5618

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 30

Stack Opening, (inches, dia.): 36

Exhaust Flow Rate (acfm): 35,000

Exhaust Temperature (°F): 350

Discharge Style: Vertical, unobstructed

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Authority for Requirement: LCPH ATI 5717/ PTO 5618

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Continuous Emissions Monitoring:

Pollutant - NO_x

Operational Specifications – 40 CFR 60.48b(a)-(f)

Date of Initial System Calibration and Quality Assurance – March 18, 2010

Ongoing System Calibration/Quality Assurance – 40 CFR 60 Appendix F

Reporting & Record keeping – 40 CFR 60 Appendix A and B

Authority for Requirement – 40 CFR 60.48b Subpart Db

LCPH ATI 5717/ PTO 5618

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 120, 121, 122, 123, 124

Table 1. Associated Equipment

EP	EU	EU Description	Raw Material/Fuel	Rated Capacity
120	120	DT Discharge Conveyor Steam Vent #1	Hexane	Facility crush rate capacity is 92,000 bu/day or 115 tons/hr
121	121	DT Discharge Conveyor Steam Vent #2	Hexane	
122	122	DT Discharge Conveyor Steam Vent #3	Hexane	
123	123	DT Discharge Conveyor Steam Vent #4	Hexane	
124	124	DT Discharge Conveyor Steam Vent #5	Hexane	

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Table 2. Emission Limits - VOC

EP/EU	Pollutant	Emission Limit(s)	Authority for Requirement
120	VOC	494 tpy	LCPH ATI 5986/PTO 5744
		0.175 gal/ton	CD 05-CV-02037, LCPH ATI 5986/PTO 5744
	HAP	0.2 gal/ton	40 CFR 63 Subpart GGGG, LCPH ATI 5986/PTO 5744
121	VOC	494 tpy	LCPH ATI 5987/PTO 5745
		0.175 gal/ton	CD 05-CV-02037, LCPH ATI 5987/PTO 5745
	HAP	0.2 gal/ton	40 CFR 63 Subpart GGGG, LCPH ATI 5987/PTO 5745
122	VOC	494 tpy	LCPH ATI 5988/PTO 5746
		0.175 gal/ton	CD 05-CV-02037, LCPH ATI 5988/PTO 5746
	HAP	0.2 gal/ton	40 CFR 63 Subpart GGGG, LCPH ATI 5988/ PTO 5746
123	VOC	494 tpy	LCPH ATI 5989/PTO 5747
		0.175 gal/ton	CD 05-CV-02037, LCPH ATI 5989/PTO 5747
	HAP	0.2 gal/ton	40 CFR 63 Subpart GGGG, LCPH ATI 5989/ PTO 5747
124	VOC	494 tpy	LCPH ATI 5990/PTO 5748
		0.175 gal/ton	CD 05-CV-02037, LCPH ATI 5990/PTO 5748
	HAP	0.2 gal/ton	40 CFR 63 Subpart GGGG, LCPH ATI 5990/ PTO 5748

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NSPS and NESHAP Applicability

In general, the federal standards of performance for new stationary sources (new source performance standards) shall be applicable as specified in LCCO 10.9.2 and 567 IAC 23.1(2). The federal standards for hazardous air pollutants (national emission standards for hazardous air pollutants) shall be applicable as specified in LCCO 10.9.3 and 567 IAC 23.1(3). The federal standards for hazardous air pollutants for source categories (national emission standards for hazardous air pollutants for source categories) shall be applicable as specified in LCCO 10.9.4 and 567 IAC 23.1(4).

A. This source is not subject to a NSPS at this time.

B. The National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart A, General Provisions and Subpart GGGG – Solvent Extraction for Vegetable Oil Production shall apply to this source pursuant to LCCO 10.9(4) "gggg" and 567 IAC 23.1(4) "cg. ".

Authority for Requirement: LCPH ATI 5986/ PTO 5744

LCPH ATI 5987/ PTO 5745

LCPH ATI 5988/ PTO 5746

LCPH ATI 5989/ PTO 5747

LCPH ATI 5990/ PTO 5748

Operating Limits

The owner or operator of this equipment shall comply with the operational limits and requirements listed below:

A. This facility shall meet the requirements of 40 CFR 63 Subpart A.

B. This facility shall comply with the requirement of 40 CFR 63 Subpart GGGG by meeting the standards of 40 CFR 63.2840 to comply with LCCO 10.9(4) "gggg."

C. This facility shall comply with the requirements of NESHAP Subpart GGGG by meeting the compliance requirements of 40 CFR 63.2850 through 40 CFR 63.2855 to comply with LCCO 10.9(4) "gggg."

Authority for Requirement: LCPH ATI 5986/ PTO 5744

LCPH ATI 5987/ PTO 5745

LCPH ATI 5988/ PTO 5746

LCPH ATI 5989/ PTO 5747

LCPH ATI 5990/ PTO 5748

Operating Condition Monitoring and Recordkeeping

If not specified elsewhere, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

A. A Material Safety Data Sheet (MSDS) of all solvent(s) used in the extraction process shall be available on site.

B. This facility shall comply with the monitoring and recordkeeping requirements of NESHAP Subpart GGGG.

Authority for Requirement: LCPH ATI 5986/ PTO 5744

LCPH ATI 5987/ PTO 5745

LCPH ATI 5988/ PTO 5746
 LCPH ATI 5989/ PTO 5747
 LCPH ATI 5990/ PTO 5748

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table 3. – Emission Point Characteristics

EP	EU	ATI/PTO #	Stack Height (ft, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temperature °F	Exhaust Flowrate (acfm)
120	120	5986/5744	9	Vertical, obstructed	6	230	Natural Draft
121	121	5987/5745	10	Vertical, obstructed	12	230	Natural Draft
122	122	5988/5746	13	Vertical, obstructed	12	230	Natural Draft
123	123	5989/5747	13	Vertical, obstructed	12	230	Natural Draft
124	124	5990/5748	15	Vertical, obstructed	12	230	Natural Draft

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility’s implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22.

G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 22.108(9)"a"*
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 22.105 (2)"h"(3)*
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 22.108 (1)"b"*
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 22.108 (14)*
5. It shall not be a defense for a 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 conditions of the permit. *567 IAC 22.108 (9)"b"*

G2. Permit Expiration

1. Except as provided in rule 567—22.104(455B), permit expiration terminates a source's right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—22.105(455B). *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall submit on forms or electronic format specified by the Department to the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Windsor Heights, Iowa 50324, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to EPA Region VII, Attention: Chief of Air Permits, 901 N. 5th St., Kansas City, KS 66101. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

G3. Certification Requirement for Title V Related Documents

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *567 IAC 22.107 (4)*

G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in

accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. *567 IAC 22.108 (15)"e"*

G5. Semi-Annual Monitoring Report

By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 22.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. *567 IAC 22.108 (5)*

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
 - a. Form 1.0 "Facility Identification";
 - b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
 - c. Form 5.0 "Title V annual emissions summary/fee"; and
 - d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
 - a. Form 1.0 "Facility Identification";
 - b. Form 5.0 "Title V annual emissions summary/fee";
 - c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.

8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

G7. Inspection of Premises, Records, Equipment, Methods and Discharges

Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b"*

G8. Duty to Provide Information

The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 22.108 (9)"e"*

G9. General Maintenance and Repair Duties

The owner or operator of any air emission source or control equipment shall:

1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 24.2(1)*

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:

- a. The date, place and time of sampling or measurements
- b. The date the analyses were performed.
- c. The company or entity that performed the analyses.
- d. The analytical techniques or methods used.
- e. The results of such analyses; and
- f. The operating conditions as existing at the time of sampling or measurement.
- g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)

2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance

records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.

3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:

- a. Comply with all terms and conditions of this permit specific to each alternative scenario.
- b. Maintain a log at the permitted facility of the scenario under which it is operating.
- c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

G11. Evidence used in establishing that a violation has or is occurring.

Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:

- a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
- b. Compliance test methods specified in 567 Chapter 25; or
- c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.

2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:

- a. Any monitoring or testing methods provided in these rules; or
- b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 22.108(6)*

G13. Hazardous Release

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 281-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). *567 IAC Chapter 131-State Only*

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process

equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

2. Excess Emissions Reporting

a. Oral Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 25.1(6). An oral report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 25.1(1)) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable emission standard by more than 10 percent or the applicable visible emission standard by more than 10 percent opacity. The oral report may be made in person or by telephone and shall include as a minimum the following:

- i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and expected duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps being taken to remedy the excess emission.
- vi. The steps being taken to limit the excess emission in the interim period.

b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required oral reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.

- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)*

3. Emergency Defense for Excess Emissions. For the purposes of this permit, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The facility at the time was being properly operated;
- c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
- d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. *567 IAC 22.108(16)*

G15. Permit Deviation Reporting Requirements

A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). *567 IAC 22.108(5)"b"*

G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)*

G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:

- a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
- b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
- c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
- d. The changes are not subject to any requirement under Title IV of the Act.
- e. The changes comply with all applicable requirements.
- f. For such a change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
 - i. A brief description of the change within the permitted facility,
 - ii. The date on which the change will occur,
 - iii. Any change in emission as a result of that change,
 - iv. The pollutants emitted subject to the emissions trade
 - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
 - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
 - vii. Any permit term or condition no longer applicable as a result of the change.

567 IAC 22.110(1)

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*

3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*

4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*

5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

- a. An administrative permit amendment is a permit revision that is required to do any of the following:

- i. Correct typographical errors
 - ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
 - iii. Require more frequent monitoring or reporting by the permittee; or
 - iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.
 - b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.
 - c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.
2. Minor Permit Modification.
- a. Minor permit modification procedures may be used only for those permit modifications that do any of the following:
 - i. Do not violate any applicable requirements
 - ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit.
 - iii. Do not require or change a case by case determination of an emission limitation or other standard, or increment analysis.
 - iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act.;
 - v. Are not modifications under any provision of Title I of the Act; and
 - vi. Are not required to be processed as significant modification.
 - b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
 - i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs.
 - ii. The permittee's suggested draft permit
 - iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of a minor permit modification procedures and a request that such procedures be used; and
 - iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).
 - c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this

change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, existing permit term terms and conditions it seeks to modify may subject the facility to enforcement action.

3. Significant Permit Modification. Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, and those requirements that apply to Title V issuance and renewal. *567 IAC 22.111-567 IAC 22.113* The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. *567 IAC 22.105(1)"a"(4)*

G19. Duty to Obtain Construction Permits

Unless exempted under 567 IAC 22.1(2), the permittee must not construct, install, reconstruct, or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, conditional permit, or permit pursuant to 567 IAC 22.8, or permits required pursuant to 567 IAC 22.4 and 567 IAC 22.5. Such permits shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source. *567 IAC 22.1(1)*

G20. Asbestos

The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when activities involve asbestos mills, surfacing of roadways, manufacturing operations, fabricating, insulating, waste disposal, spraying applications, demolition and renovation operations, training fires and controlled burning of a demolished building. *567 IAC 23.1(3)"a", and 567 IAC 23.2*

G21. Open Burning

The permittee is prohibited from conducting open burning, except as may be allowed by 567 IAC 23.2. *567 IAC 23.2 except 23.2(3)"j"; 567 IAC 23.2(3)"j" - State Only*

G22. Acid Rain (Title IV) Emissions Allowances

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 22.108(7)*

G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
 - b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
 - c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
 - d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
 - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
 - e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
 - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.
3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,
5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or

termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*

2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.

a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;

b. Reopening and revision on this ground is not 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 have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.

c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a"*, *567 IAC 22.108(17)"b"*

3. A permit shall be reopened and revised under any of the following circumstances:

a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;

b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;

c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.

d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*

4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

G25. Permit Shield

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:

a. Such applicable requirements are included and are specifically identified in the permit;
or

- b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.
3. A permit shield shall not alter or affect the following:
 - a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
 - b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
 - c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
 - d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 22.108 (8)*

G27. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 22.108 (9)"d"*

G28. Transferability

This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought to determine transferability of the permit. *567 IAC 22.111 (1)"d"*

G29. Disclaimer

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 22.3(3)"c"*

G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. Unless specifically waived by the department's stack test contact, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. The department may accept a testing protocol in lieu of a pretest meeting. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be

demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

Stack test notifications, reports and correspondence shall be sent to:

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 242-6001

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.

567 IAC 25.1(7)"a", 567 IAC 25.1(9)

G31. Prevention of Air Pollution Emergency Episodes

The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons.

567 IAC 26.1(1)

G32. Contacts List

The current address and phone number for reports and notifications to the EPA administrator is:

Chief of Air Permits
EPA Region 7
Air Permits and Compliance Branch
901 N. 5th Street
Kansas City, KS 66101
(913) 551-7020

The current address and phone number for reports and notifications to the department or the Director is:

Chief, Air Quality Bureau
Iowa Department of Natural Resources
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 242-5100

Reports or notifications to the DNR Field Offices or local programs shall be directed to the supervisor at the appropriate field office or local program. Current addresses and phone numbers are:

Field Office 1

909 West Main – Suite 4
Manchester, IA 52057
(563) 927-2640

Field Office 2

2300-15th St., SW
Mason City, IA 50401
(641) 424-4073

Field Office 3

1900 N. Grand Ave.

Field Office 4

1401 Sunnyside Lane

Spencer, IA 51301
(712) 262-4177

Field Office 5

401 SW 7th Street, Suite I
Des Moines, IA 50309
(515) 725-0268

Polk County Public Works Dept.

Air Quality Division
5885 NE 14th St.
Des Moines, IA 50313
(515) 286-3351

Atlantic, IA 50022
(712) 243-1934

Field Office 6

1023 West Madison Street
Washington, IA 52353-1623
(319) 653-2135

Linn County Public Health

Air Quality Branch
501 13th St., NW
Cedar Rapids, IA 52405
(319) 892-6000

Appendix A: Consent Order *United States of America vs. Cargill, Inc.*, Civil Action No. 05-CV-2037

<http://www.epa.gov/compliance/resources/decrees/civil/caa/cargill-cd.pdf>

**Appendix B: NSPS Subpart Db, Standards of Performance for Industrial-
Commercial-Institutional Steam Generating Units**

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=c9a95b8d8293f9d406328b0faa6ce3c8&rgn=div6&view=text&node=40:6.0.1.1.1.11&idno=40>

Appendix C: NSPS Subpart DD, Standards of Performance for Grain Elevators

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=c9a95b8d8293f9d406328b0faa6ce3c8&rgn=div6&view=text&node=40:6.0.1.1.1.46&idno=40>

**Appendix D: NESHAP Subpart GGGG, Solvent Extraction for Vegetable Oil
Production**

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=0ca1b2c79fe6e1afccbe240ba50a5ea0&rgn=div6&view=text&node=40:12.0.1.1.1.14&idno=40>

Appendix E: NESHAP Subpart DDDDD, Industrial, Commercial, and Institutional Boilers and Process Heaters.

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=0ca1b2c79fe6e1afccbe240ba50a5ea0&rgn=div6&view=text&node=40:13.0.1.1.1.5&idno=40>