

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

Name of Permitted Facility: Diamond V Mills, Inc.

**Facility Location: 436 G Ave. NW
Cedar Rapids, IA 52405**

Air Quality Operating Permit Number: 00-TV-042R2-M001

Expiration Date: August 17, 2018

Permit Renewal Application Deadline: February 17, 2018

EIQ Number: 92-9065

Facility File Number: 57-01-045

Responsible Official

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Title: Executive Vice President & COO

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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



Lori Hanson, Supervisor of Air Operating Permits Section

4/28/2015

Date

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| 40 CFR Part 63 Subpart DDDDD – National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters | |

Abbreviations

| | |
|----------------|--|
| acfm | actual cubic feet per minute |
| ATI | Authorization to Install |
| CFR..... | Code of Federal Regulation |
| CE | control equipment |
| °F..... | degrees Fahrenheit |
| D | Downward discharge |
| EIQ..... | emissions inventory questionnaire |
| EP | emission point |
| EU | emission unit |
| gr./dscf | grains per dry standard cubic foot |
| I | inside-vent inside building |
| IAC | Iowa Administrative Code |
| IDNR | Iowa Department of Natural Resources |
| LCPH | Linn County Public Health Department |
| LCO..... | Linn County Ordinance |
| MVAC..... | motor vehicle air conditioner |
| NAICS | North American Industry Classification System |
| N/A | not applicable |
| NSPS | New Source Performance Standard |
| ppmv | parts per million by volume |
| lb./hr | pounds per hour |
| lb./MMBtu..... | pounds per million British thermal units |
| PBOM | Pinch Bottom Open Mouth |
| PTO..... | Permit to Operate |
| scfm | standard cubic feet per minute |
| SIC | Standard Industrial Classification |
| TPH..... | tons per hour |
| TPY | tons per year |
| USEPA..... | United States Environmental Protection Agency |
| V..... | Vertical (without rain cap or with unobstructing rain cap) |
| VR | Vertical, with obstruction rain cap |

Pollutants

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

I. Facility Description and Equipment List

Facility Name: **Diamond V Mills, Inc.**

Permit Number: **00-TV-042R2-M001**

Facility Description: **Prepared Feed and Feed Ingredients for Animals and Fowls, Except Dogs and Cats (SIC 2048); Other Animal Food Manufacturing (NAICS 311119)**

| |
|-------------------------------------|
| Equipment List (North Plant) |
|-------------------------------------|

| Emission Point Number | Emission Unit Number | Emission Unit Description | LCPH Construction Permit Number |
|-----------------------|----------------------|--|---------------------------------|
| 6 | 8 | Pneumatic Conveying from Dryer 2 | 3878 / 3745 |
| 13 | 15 | Dryer 2 - Yeast Culture Drying | 6166 / 5982 |
| | 18 | Dryer 2 – Natural Gas Burner | |
| 20 | 24 | Dryer 3 - Yeast Culture Drying | 6690 / 6462 |
| | 25 | Dryer 3 – Natural Gas Burner | |
| | 94 | Raw Materials Transfer to Dryers 3 & 4 | |
| | 98 | Dryer 3 Finished Product Pneumatic Conveying | |
| 26 | 33 | Natural Gas Boiler | -- |
| 33 | 40 | B6 – 12 | 3588 / 3613 |
| 34 | 41 | B6 – 13 | 3589 / 3614 |
| 35 | 42 | B6 – 14 | 3590 / 3615 |
| 36 | 43 | B6 – 15 | 3591 / 3616 |
| 41 | 48 | B7 – T4/T5 | 3596 / 3938 |
| 42 | 49 | PBOM | 3597 / 3939 |
| 43 | 50 | B10 – 1 | 3598 / 3620 |
| 44 | 51 | B10 – 2 | 3599 / 3621 |
| 45 | 52 | B10 – 3 | 3600 / 3622 |
| 46 | 53 | B10 – 4 | 3601 / 3623 |
| 47 | 54 | B10 – 5 | 3602 / 3629 |
| 48 | 55 | B10 – 6 | 3603 / 3630 |
| 49 | 56 | B10 – T1 | 3604 / 3940 |
| 50 | 57 | B10 – T2 | 3605 / 3941 |
| 51 | 58 | B10 – T3 | 3606 / 3942 |
| 53 | 60 | B15 – 1A/1B | 3608 / 3624 |
| 53 | 88 | B15 – 2A/2B | |
| 53 | 89 | B15 – 3 | |
| 53 | 90 | B15 – 4 | |
| 53 | 91 | B15 – 5 | |
| 54 | 61 | B15 – 6A | 3609 / 3625 |
| 54 | 62 | B15 – 6B | |
| 55 | 63 | B15 – 6C | 3612 / 3626 |
| 55 | 64 | B15 – 6D | |
| 56 | 65 | B15 – 6E | 3614 / 3627 |
| 56 | 66 | B15 – 6F | |
| 57 | 67 | B15 – 6G | 3616 / 3628 |
| 57 | 68 | B15 – 6H | |
| 62 | 69 | B15 – 6I | 3617 / 3631 |
| 63 | 70 | B15 – 7B | 3618 / 3632 |
| 64 | 71 | B15 – 6J | 3619 / 3633 |

| Emission Point Number | Emission Unit Number | Emission Unit Description | LCPH Construction Permit Number |
|-----------------------|----------------------|--|---------------------------------|
| 65 | 72 | B15 – 7D | 3620 / 3634 |
| 66 | 73 | B15 – 8 | 3621 / 3635 |
| 66 | 74 | B15 – 9 | |
| 66 | 75 | B15 – 10 | |
| 67 | 76A | BR001 | 3863 / 3918 |
| 67 | 76B | BR101 | |
| 67 | 76C | BR201 | |
| 68 | 77 | BR301 | 3864 / 3919 |
| 69 | 78 | BR401 | 3862 / 3920 |
| 70 | 79 | BR501 | 3861 / 3921 |
| 71 | 80 | BR601 | 3860 / 3922 |
| 72 | 81 | B6 – 9 | 3786 / 3636 |
| 73 | 82 | B6 – 10 | 3787 / 3637 |
| 74 | 83 | B6 – 11 | 3788 / 3638 |
| 75 | 84 | D2 – 1 | 3789 / 3639 |
| 76 | 85 | D2 -2 | 3790 / 3640 |
| 77 | 86 | D2 – 3/5 | 3791 / 3641 |
| 78 | 87 | D2 – 4 | 3792 / 3642 |
| 100 | 24 | Dryer 3 – Yeast Culture Drying | 6691 / 6463 |
| | 25 | Dryer 3 – Natural Gas Burner | |
| | 94 | Raw Materials Transfer to Dryers 3 & 4 | |
| | 98 | Dryer 3 Finished Product Pneumatic Conveying | |
| | 100 | Tunnel Dryer 4 – Yeast Culture Drying | |
| | 101 | Tunnel Dryer 4 – Natural Gas Burner | |
| | 102 | Regenerative Thermal Oxidizer Natural Gas Burner | |
| 105 | 105 | Building 7 Mixer | 6189 / 5983 |
| 106 | 106 | Building 10 Weigh Hopper | 6190 / 5987 |
| 107 | 107 | Building 10 Mixer | 6191 / 5988 |
| 108 | 108 | Building 7 Surge Feeder | 6214 / 5984 |

| |
|--|
| Insignificant Activities Equipment List |
|--|

| Insignificant Emission Unit Number | Insignificant Emission Unit Description |
|---|--|
| 12 | TP2 |
| 13 | Finished Product Rail Loadout |
| 14 | Packaging |
| 92 | B7 Loadout |
| 93 | B15 Loadout |
| 96 | TP3 |
| 97 | Dryer 4 Pneumatic Conveying |
| 103 | B10 Finished Product Blower |
| 104 | B10 Dust Collector for Micro Adds |
| 997 | Fermenter Feed Tank #3 |
| 998 | Fermenter Feed Tank #1 |
| 999 | Fermenter Feed Tank #2 |

II. Plant-Wide Conditions

Facility Name: **Diamond V Mills, Inc.**

Permit Number: **00-TV-042R2-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: August 18, 2013

Ending on: August 17, 2018

Amendments, modifications and reopening 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.

Emission Limits

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

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

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"

Particulate Matter:

No person shall permit, cause, suffer or allow the emission of particulate matter into the atmosphere in any one hour from any emission point from any process equipment at a rate in excess of that specified in Table I for the process weight rate allocated to such emission point. The emission standards in LCO 10.9 (1)"a" shall apply and those specified in LCO 10.8 and 10.9 and Table I shall not apply to each process of the types listed in those sections, with the following exception: whenever the compliance status, history of operations, ambient air quality in the vicinity, or the type of control equipment utilized, would warrant maximum control, the Air Pollution Control Officer may enforce 0.1 grain per standard cubic foot of exhaust gas, or Table I of this section, whichever would result in the lowest allowable emission rate.

Authority for Requirement: LCO 10.9(1)

Fugitive Dust: Attainment and Unclassified Areas - A person shall take reasonable precautions to prevent particulate matter from becoming airborne in quantities sufficient to cause a nuisance as defined in Iowa Code section 657.1 when the person allows, causes or permits 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 roads. Ordinary travel includes routine traffic and road maintenance activities such as scarifying, compacting, transporting road maintenance surfacing material, and scraping of the unpaved public road surface. (the preceding sentence is State Only) 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 public 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 be 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"
LCO 10.13

Regulatory Authority

This facility is located in Linn County, Iowa. Linn County Public Health Department, under agreement with the Iowa Department of Natural Resources (DNR), is the primary regulatory agency in Linn County. This Title V permit is issued by the Iowa Department of Natural Resources, however, required contacts and information submittals referred to in this permit as required by "the Department" should continue to be directed to the Linn County Public Health Department office. This will include such items as stack test notification, stack test results submittal, oral and written excess emission reports, and reports and records required in the Linn County construction permits. Information specifically required by the Title V permit such as the annual EIQ and fees, annual compliance certification, semi-annual monitoring report and any Title V forms submitted for updates, modifications, renewals, etc. must be submitted to the Iowa DNR.

Authority for Requirement: 567 IAC 22.108

III. Emission Point-Specific Conditions

Facility Name: **Diamond V Mills, Inc.**
 Permit Number: **00-TV-042R2-M001**

Emission Point ID Number: 6

Associated Equipment.

| EP | EU | EU Description | Raw Material | Rated Capacity | CE ID | CE Description |
|----|----|--|--------------|----------------|-------|----------------|
| 6 | 8 | Pneumatic Conveying from Dryer 2 | Grains | 4.0 tph | CE-04 | Baghouse |

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.

Emission Limits.

| EP | Pollutant | Emission Limit(s) | Authority for Requirement |
|----|-----------|-------------------|---|
| 6 | PM | 0.1 gr/dscf | LCPH ATI 3878 / PTO 3745 567 IAC 23.4(7) LCO 10.9(1)"g" |
| | Opacity | 20% | LCPH ATI 3878 / PTO 3745 LCO 10.7 |

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 installed to control particulate emissions. The control equipment shall be maintained on this source in a good operating condition at all times. All appropriate probes and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed and maintained in a good operating condition.

Authority for Requirement: LCPH ATI 3878 / PTO 3745

Operating Limits:

A. The control equipment on this unit shall be maintained according to the manufacturer's specifications and good operating practices.

B. The normal differential pressure across the baghouse shall be maintained between 0.1" – 8.0" w.c.⁽¹⁾

⁽¹⁾ *If the indicator is out of range, corrective action will be initiated as soon as possible, but not later than 8 hours from observation of abnormal condition. This does not include periods of startup, shutdown or cleaning of the control equipment. Additionally, it shall not apply immediately after replacing the socks.*

Operating Condition Monitoring and Recordkeeping Requirements

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 the differential pressure across the control device on a weekly basis.
 - B. 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.
 - C. The owner or operator shall maintain a record of all maintenance completed on the control device.
- Authority for Requirement: LCPH ATI 3878 / PTO 3745

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

| EP | LCPH ATI / PTO | Stack Height (feet, above ground) | Discharge Style | Stack Opening (inches, dia.) | Exhaust Temp. (°F) | Exhaust Flowrate (acfm) |
|----|-------------------|--------------------------------------|--------------------|------------------------------------|--------------------------|-------------------------------|
| 6 | 3878 / 3745 | 14 | D | 4 | 108 | 538 |

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 13

Associated Equipment.

| EP | EU | EU Description | Raw Material | Rated Capacity | CE ID | CE Description |
|----|----|--------------------------------|--------------|----------------|------------------|------------------------|
| 13 | 15 | Dryer 2 – Yeast Culture Drying | Feed | 2.4 tph | CE-06A | Cyclone A |
| | 18 | Dryer 2 – Natural Gas Burner | Natural Gas | 5.5 MMBtu/hr | CE-06B CE-06C | Cyclone B Cyclone C |

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.

Emission Limits.

| EP | Pollutant | Emission Limit(s) | Authority for Requirement |
|----|------------------|-------------------|---------------------------|
| 13 | PM | 3.0 lb/hr | LCPH ATI 6166 / PTO 5982 |
| | PM ₁₀ | 3.0 lb/hr | |
| | VOC | 25.1 lb/hr | |

General Emission Limits.

| EP | Pollutant | Emission Limit(s) | Authority for Requirement |
|----|-----------------|-------------------|--|
| 13 | PM | 0.1 gr/dscf | LCPH ATI 6166 / PTO 5982 567 IAC 23.4(7) LCO 10.9(1)"g" |
| | | 0.43 lb/MMBtu | LCPH ATI 6166 / PTO 5982 LCO 10.8(1)"c" |
| | Opacity | 20% | LCPH ATI 6166 / PTO 5982 LCO 10.7 |
| | SO ₂ | 500 ppmv | LCPH ATI 6166 / PTO 5982 567 IAC 23.3(3)"e" LCO 10.12(2) |

Operational Limits & Requirements

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

Control Device:

Cyclones A - C shall be installed to control particulate matter 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 "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 6166 / PTO 5982

Operating Limits:

- A. EU-18 shall be limited to combusting natural gas only.
- B. CE-6A, CE-6B and CE-6C shall be maintained according to the manufacturer's specifications and good operating practices.
- C. The production of Lactobacillus-based and concentrated yeast products in EU-15 is prohibited.

Authority for Requirement: LCPH ATI 6166 / PTO 5982

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 maintain records verifying the fuel used in EU-18.
 - B. The owner or operator shall maintain a record of all maintenance completed on each cyclone (CE-6A, CE-6B and CE-6C).
 - C. 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.
 - D. The owner or operator shall maintain records of products dried in EU-15.
- Authority for Requirement: LCPH ATI 6166 / PTO 5982

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

| EP | LCPH ATI / PTO | Stack Height (feet, above ground) | Discharge Style | Stack Opening (inches, dia.) | Exhaust Temp. (°F) | Exhaust Flowrate (acfm) |
|----|-------------------|--------------------------------------|--------------------|---------------------------------|--------------------------|-------------------------------|
| 13 | 6166 / 5982 | 56 | V | 57 | 125 | 35,000 |

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.

Stack Testing:

- Pollutant – Volatile Organic Compounds
- 1st Stack Test to be Completed by August 17, 2015
- Test Method – 40 CFR 60, Appendix A, Method 25A*
- Authority for Requirement – 567 IAC 22.108(3)

* Or approved alternative

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?
Facility Maintained Operation & Maintenance Plan Required?
Compliance Assurance Monitoring (CAM) Plan Required?

Yes No
Yes No
Yes No

Cyclone Agency Operation & Maintenance Plan (EP's 13, 20)

Monitoring Guidelines (EP's 13, 20)

The facility makes a commitment to take timely corrective action during periods of excursion where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range. An excursion is determined by the averaged discrete data point over a period of time, or the presence of a monitored abnormal condition. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the excursion to the department and conduct source testing within 90 days of the excursion to demonstrate compliance with applicable requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

Monitoring Methods & Corrective Actions

General (EP's 13, 20)

- Monitoring is not required during periods of time greater than one week in which the source does not operate.
- The facility will maintain a written record of the observation, deficiencies, and any action resulting from the inspections.

Weekly (EP's 13, 20)

- Visible emissions 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 an exceedence not a violation and action will be taken as soon as possible, but no later than 8 hour after the occurrence. 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 unsuccessful that day due to weather, an observation shall be made the following day. Maintain a written record of the observation and any action resulting from the inspection.

Semiannually (EP's 13, 20)

- Lockout/Tagout equipment according to machine specific list.
- Inspect and clean equipment according to Work Order procedure.
- Remove Lockout/Tagout and verify good operations.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented before the system is returned to service.

Record Keeping and Reporting (EP's 13, 20)

- The facility will maintain a written or electronic record of all inspections and any action resulting from the inspections.
- The facility will keep maintenance and inspection records for five (5) years and will be available upon request.

Quality Control (EP's 13, 20)

- All instruments and control equipment will be calibrated, maintained, and operated according to the manufacture specifications.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 20

Associated Equipment.

| EP | EU | EU Description | Raw Material | Rated Capacity | CE ID | CE Description | CE ID / Description |
|----|----|--|--------------|--|----------------------------|-------------------------------------|---------------------|
| 20 | 94 | Raw Materials Transfer to Dryers 3 & 4 | Grain | 4.75 tph | CE-94 | Baghouse | CE-100 / RTO |
| | 24 | Dryer 3 – Yeast Culture Drying | Feed | 2.4 tph RTO controlled OR 1.6 tph uncontrolled and 0.8 tph RTO controlled | CE-12A CE-12B CE-12C | Cyclone A Cyclone B Cyclone C | |
| | 24 | Dryer 3 – Concentrated Yeast Drying | Feed | 0.7 tph RTO controlled OR 0.47 tph uncontrolled and 0.23 tph RTO controlled | | | |
| | 24 | Dryer 3 – Lactobacillus Drying | Feed | 0.55 tph RTO controlled OR 0.37 tph uncontrolled and 0.18 tph RTO controlled | | | |
| | 25 | Dryer 3 – Natural Gas Burner | Natural Gas | 5.2 MMBtu/hr | | | |
| | 98 | Finished Product Pneumatic Conveying | Feed | 2.4 tph | CE-98 | Baghouse | |

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.

Emission Limits.

| EP | Pollutant | Emission Limit(s) | Authority for Requirement |
|----|---------------------------|-------------------|---------------------------|
| 20 | PM ₁₀ | 2.23 lb/hr | LCPH ATI 6690 / PTO 6462 |
| | PM | 2.23 lb/hr | |
| | VOC | 16.73 lb/hr | |
| | Single HAP ⁽¹⁾ | 9.4 tpy | |

⁽¹⁾ Acetaldehyde

General Emission Limits.

| EP | Pollutant | Emission Limit(s) | Authority for Requirement |
|----|-----------------|-------------------|---|
| 20 | PM | 0.1 gr/dscf | LCPH ATI 6690 / PTO 6462 567 IAC 23.4(7) LCO 10.9(1)"g" |
| | | 0.6 lb/MMBtu | LCPH ATI 6690 / PTO 6462 LCO 10.8(2)"b" |
| | Opacity | 20% | LCPH ATI 6690 / PTO 6462 LCO 10.7 |
| | SO ₂ | 500 ppmv | LCPH ATI 6690 / PTO 6462 567 IAC 23.3(3)"e" LCO 10.12 (2) |

Operational Limits & Requirements

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

Control Equipment.

| EP ID | EU | Description | CE ID | Description | CE ID / Description |
|-------|-----|--|-------------------|-------------------------------------|---------------------|
| 20 | 94 | Raw Materials Transfer to Dryers 3 & 4 | 94 | Baghouse | CE-100 / RTO |
| | 24 | Dryer 3 – Yeast Culture Drying | 12A 12B 12C | Cyclone A Cyclone B Cyclone C | |
| | 25 | Dryer 3 – Natural Gas Burner | | | |
| | 98 | Dryer 3 Finished Product Pneumatic Conveying | 98 | Baghouse | |
| 100 | 102 | RTO Natural Gas Burner | 100 | RTO | |

The control equipment listed above shall be installed to control particulate matter and VOC emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. When Dryer 4 (EU-100) is not operating, 100% of airflow from Dryer 3 (EU-24) shall be routed through The RTO (CE-100) and discharged out EP-100. All appropriate probes, monitors and gauges needed to measure the parameters outlined in condition "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control devices at all times.

Authority for Requirement: LCPH ATI 6690 / PTO 6462

Operating Limits:

- A. EU-25 and EU-102 shall be limited to combusting natural gas only.
- B. CE-94, CE-98, CE-12A, CE-12B and CE-12C shall be maintained according to the manufacturer's specifications and good operating practices.
- C. The differential pressure across each baghouse (CE-94 and CE-98) shall be maintained between 0.1" and 8.0" w.c.
- D. The Regenerative Thermal Oxidizer (CE-100) shall maintain a chamber temperature (3-hour block average) during operation of no lower than 1450 degrees Fahrenheit.
- E. When only Dryer 4 is operating, the D3 RTO Exhaust Valve (FCV-2905) will be set at 0% (open), only allowing exhaust from Dryer 4 to enter the RTO. The Dryer 3 Heat Exchanger Exhaust Valve (FCV-2921) that vents to the atmosphere will operate at 100% (open).
- F. When only Dryer 3 is operating, the D3 RTO Exhaust Valve (FCV-2905) will be set at 60% (open) sending all exhaust through the RTO. In this case, the D3 Heat Exchanger Exhaust Valve that vents to the atmosphere operates at 0% (open).
- G. In the case when both Dryer 3 and Dryer 4 are operating, the D3 RTO Exhaust Valve (FCV-2905) will operate at ≥ 15% (open) to allow approximately one third of the airflow to go to the RTO while controlling the back pressure in the D3 duct. The D3 Heat Exchanger Exhaust Valve will operate at 85% (open), allowing the remaining two thirds of the exhaust stream to exhaust to the atmosphere.
- H. Diamond V will monitor the valve positions electronically each time the operating scenario changes. Valve positions are controlled by an electronic system which has alarms set if they go out of range.
- I. The HAP emissions from the production of concentrated yeast and lactobacillus products shall not exceed 9.4 tons/yr calculated on a 12-month rolling total basis. Diamond V shall calculate the actual emissions using the most current Department approved test results for each yeast product produced.

Authority for Requirement: LCPH ATI 6690 / PTO 6462

Operating Condition Monitoring and Recordkeeping:

Unless specified by a federal regulation, 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. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. The owner or operator shall maintain records verifying the fuel used in EU-25 and EU-102.
- B. The owner or operator shall monitor and record the differential pressure across each baghouse (CE-94 and CE-98) on a weekly basis.

- C. The owner or operator shall maintain a record of all maintenance completed on each baghouse (CE-94 and CE-98).
- D. 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.
- E. The owner or operator shall continuously monitor the three-hour block average operating temperature of the Regenerative Thermal Oxidizer (CE-100), and record all three-hour periods (during actual operations) when the average temperature of the thermal oxidizer falls below 1450 degrees Fahrenheit.
- F. The owner or operator shall be able to document the actual operating schedules of Dryer 3 (EU-24) and Dryer 4 (EU-100) in order to demonstrate compliance with "Operating Limits" conditions E, F and G.
- G. Records each month the sum of actual HAP emissions from the production of concentrated yeast and Lactobacillus products.
- H. Record each month the 12-month rolling total HAP emissions from the production of concentrated yeast and Lactobacillus products.

Authority for Requirement: LCPH ATI 6690 / PTO 6462

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

| EP | LCPH ATI / PTO | Stack Height (feet, above ground) | Discharge Style | Stack Opening (inches, dia.) | Exhaust Temp. (°F) | Exhaust Flowrate (acfm) |
|----|-------------------|--------------------------------------|-----------------|---------------------------------|--------------------------|-------------------------------|
| 20 | 6690 / 6462 | 74 | V | 46 | 125 | 22075 |

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 or 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 shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

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

O&M for Cyclones is on page 13 of this permit.

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

CAM plan for RTO is on page 27 of this permit.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 26

Associated Equipment.

| EP | EU | EU Description | Raw Material | Rated Capacity | CE ID | CE Description |
|----|----|----------------|--------------|----------------|-------|----------------|
| 26 | 33 | Boiler | Natural Gas | 3.348 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.

General Emission Limits.

| EP | Pollutant | Emission Limit(s) | Authority for Requirement |
|----|-----------------|-------------------|---|
| 26 | PM | 0.6 lb/MMBtu | 567 IAC 23.3(2)(b)"2" LCO 10.8(2)"a" |
| | Opacity | 20% | LCO 10.7 |
| | SO ₂ | 500 ppmv | 567 IAC 23.3(3)"e" LCO 10.12(2) |

Operational Limits & Requirements

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

NESHAP Applicability:

This equipment is subject to the 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

Monitoring Requirements

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

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: 33, 34, 35, 36, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 53, 54, 55, 56, 57, 62, 63, 64, 65, 66, 72, 73, 74, 75, 76, 77, 78

Associated Equipment.

| EP | EU | EU Description | Raw Material | Rated Capacity | CE ID | CE Description |
|----|----|----------------|---|----------------|-------|-------------------|
| 33 | 40 | B6 – 12 | Hominy Midds / Corn Gluten / Feed | 25 tph | CE-19 | Single Bag Filter |
| 34 | 41 | B6 – 13 | Hominy Midds / Wheat Midds | 25 tph | CE-20 | Single Bag Filter |
| 35 | 42 | B6 – 14 | Wheat Midds / Rye Midds | 24 tph | CE-21 | Single Bag Filter |
| 36 | 43 | B6 – 15 | Wheat Midds / Rye Midds / Hominy Midds / Corn Gluten Feed | 25 tph | CE-22 | Single Bag Filter |
| 41 | 48 | B7 – T4/T5 | Yeast Culture | 2 tph | CE-27 | Single Bag Filter |
| 42 | 49 | PBOM | Yeast Culture | 10 tph | CE-28 | Single Bag Filter |
| 43 | 50 | B10 – 1 | Yeast Culture | 12.5 tph | CE-29 | Single Bag Filter |
| 44 | 51 | B10 – 2 | Rye Midds | 12.5 tph | CE-30 | Single Bag Filter |
| 45 | 52 | B10 – 3 | Wheat Midds | 12.5 tph | CE-31 | Single Bag Filter |
| 46 | 53 | B10 – 4 | Corn Gluten Feed | 12.5 tph | CE-32 | Single Bag Filter |
| 47 | 54 | B10 – 5 | Hominy Midds | 12.5 tph | CE-33 | Single Bag Filter |
| 48 | 55 | B10 – 6 | Yeast Culture | 12.5 tph | CE-34 | Single Bag Filter |
| 49 | 56 | B10 – T1 | Yeast Culture | 2.0 tph | CE-35 | Single Bag Filter |
| 50 | 57 | B10 – T2 | Yeast Culture | 2.0 tph | CE-36 | Single Bag Filter |
| 51 | 58 | B10 – T3 | Yeast Culture | 10 tph | CE-37 | Single Bag Filter |
| 53 | 60 | B15 – 1A/1B | Wheat Midds | 50 tph | CE-39 | Single Bag Filter |
| | 88 | B15 – 2A/2B | Rye Midds / Corn Gluten Feed | | | |
| | 89 | B15 – 3 | Hominy Midds | | | |
| | 90 | B15 – 4 | Corn / Hominy Midds | | | |
| | 91 | B15 – 5 | Corn / Hominy Midds | | | |
| 54 | 61 | B15 – 6A | Rye Midds | 36 tph | CE-40 | Single Bag Filter |
| | 62 | B15 – 6B | Hominy Midds | | | |
| 55 | 63 | B15 – 6C | Corn Gluten Feed | 36 tph | CE-41 | Single Bag Filter |
| | 64 | B15 – 6D | | | | |
| 56 | 65 | B15 – 6E | Corn | 36 tph | CE-42 | Single Bag Filter |
| | 66 | B15 – 6F | Wheat Midds | | | |
| 57 | 67 | B15 – 6G | Wheat Midds | 36 tph | CE-43 | Single Bag Filter |
| | 68 | B15 – 6H | Hominy Midds | | | |
| 62 | 69 | B15 – 6I | Yeast Culture | 2 tph | CE-48 | Single Bag Filter |
| 63 | 70 | B15 – 7B | Yeast Culture | 2 tph | CE-49 | Single Bag Filter |
| 64 | 71 | B15 – 6J | Yeast Culture | 2 tph | CE-50 | Single Bag Filter |
| 65 | 72 | B15 – 7D | Yeast Culture | 2 tph | CE-51 | Single Bag Filter |
| 66 | 73 | B15 – 8 | Hominy Midds | 36 tph | CE-52 | Single Bag Filter |
| | 74 | B15 – 9 | Rye / Hominy Midds | | | |
| | 75 | B15 – 10 | Rye Midds / Wheat Midds / Corn Gluten Feed | | | |
| 72 | 81 | B6 – 9 | Corn / Hominy Midds / Rye Midds | 16.5 tph | CE-53 | Single Bag Filter |
| 73 | 82 | B6 – 10 | Hominy Midds / Wheat Midds | 16.5 tph | CE-54 | Single Bag Filter |
| 74 | 83 | B6 – 11 | Hominy Midds / Rye Midds | 16.5 tph | CE-55 | Single Bag Filter |
| 75 | 84 | D2 – 1 | Wheat Midds | 12.5 tph | CE-56 | Single Bag Filter |
| 76 | 85 | D2 -2 | Wheat Midds | 12.5 tph | CE-57 | Single Bag Filter |
| 77 | 86 | D2 – 3/5 | Rye Midds | 12.5 tph | CE-58 | Single Bag Filter |
| 78 | 87 | D2 – 4 | Hominy Midds | 12.5 tph | CE-59 | Single Bag Filter |

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.

Emission Limits.

| EP | Pollutant | Emission Limit(s) | Authority for Requirement |
|--|-----------|-------------------|---|
| 33, 34, 35, 36, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 53, 54, 55, 56, 57, 62, 63, 64, 65, 66, 72, 73, 74, 75, 76, 77, 78 | PM | 0.1 gr/dscf | LCPH ATI 3588 / PTO 3613 LCPH ATI 3589 / PTO 3614 LCPH ATI 3590 / PTO 3615 LCPH ATI 3591 / PTO 3616 LCPH ATI 3596 / PTO 3938 LCPH ATI 3597 / PTO 3939 LCPH ATI 3598 / PTO 3620 LCPH ATI 3599 / PTO 3621 LCPH ATI 3600 / PTO 3622 LCPH ATI 3601 / PTO 3623 LCPH ATI 3602 / PTO 3629 LCPH ATI 3603 / PTO 3630 LCPH ATI 3604 / PTO 3940 LCPH ATI 3605 / PTO 3941 LCPH ATI 3606 / PTO 3942 LCPH ATI 3608 / PTO 3624 LCPH ATI 3609 / PTO 3625 LCPH ATI 3612 / PTO 3626 LCPH ATI 3614 / PTO 3627 LCPH ATI 3616 / PTO 3628 LCPH ATI 3617 / PTO 3631 LCPH ATI 3618 / PTO 3632 LCPH ATI 3619 / PTO 3633 LCPH ATI 3620 / PTO 3634 LCPH ATI 3621 / PTO 3635 LCPH ATI 3786 / PTO 3636 LCPH ATI 3787 / PTO 3637 LCPH ATI 3788 / PTO 3638 LCPH ATI 3789 / PTO 3639 LCPH ATI 3790 / PTO 3640 LCPH ATI 3791 / PTO 3641 LCPH ATI 3792 / PTO 3642 567 IAC 23.4(7) LCO 10.9(1)"g" |
| | Opacity | 20% | LCO 10.7 |

Operational Limits & Requirements

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

Control Device:

A single bag filter shall be installed to control particulate emissions. The control equipment shall be maintained on this source in a good operating condition at all times. All appropriate probes and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed and maintained in a good operating condition.

Authority for Requirement: LCPH ATI 3588 / PTO 3613; LCPH ATI 3589 / PTO 3614; LCPH ATI 3590 / PTO 3615; LCPH ATI 3591 / PTO 3616; LCPH ATI 3596 / PTO 3938; LCPH ATI 3597 / PTO 3939; LCPH ATI 3598 / PTO 3620; LCPH ATI 3599 / PTO 3621; LCPH ATI 3600 / PTO 3622; LCPH ATI 3601 / PTO 3623; LCPH ATI 3602 / PTO 3629; LCPH ATI 3603 / PTO 3630; LCPH ATI 3604 / PTO 3940; LCPH ATI 3605 / PTO 3941; LCPH ATI 3606 / PTO 3942; LCPH ATI 3608 / PTO 3624; LCPH ATI 3609 / PTO 3625; LCPH ATI 3612 / PTO 3626; LCPH ATI 3614 / PTO 3627; LCPH ATI 3616 / PTO 3628; LCPH ATI 3617 / PTO 3631; LCPH ATI 3618 / PTO 3632; LCPH ATI 3619 / PTO 3633; LCPH ATI 3620 / PTO 3634; LCPH ATI 3621 / PTO 3635; LCPH ATI 3786 / PTO 3636; LCPH ATI 3787 / PTO 3637; LCPH ATI 3788 / PTO 3638; LCPH ATI 3789 / PTO 3639; LCPH ATI 3790 / PTO 3640; LCPH ATI 3791 / PTO 3641; LCPH ATI 3792 / PTO 3642

Operating Limits:

- A. The control equipment shall be maintained according to the manufacturer's specifications and good operating practices.
- B. The control equipment shall be visually inspected on a monthly basis.

Authority for Requirement: LCPH ATI 3588 / PTO 3613; LCPH ATI 3589 / PTO 3614; LCPH ATI 3590 / PTO 3615; LCPH ATI 3591 / PTO 3616; LCPH ATI 3596 / PTO 3938; LCPH ATI 3597 / PTO 3939; LCPH ATI 3598 / PTO 3620; LCPH ATI 3599 / PTO 3621; LCPH ATI 3600 / PTO 3622; LCPH ATI 3601 / PTO 3623; LCPH ATI 3602 / PTO 3629; LCPH ATI 3603 / PTO 3630; LCPH ATI 3604 / PTO 3940; LCPH ATI 3605 / PTO 3941; LCPH ATI 3606 / PTO 3942; LCPH ATI 3608 / PTO 3624; LCPH ATI 3609 / PTO 3625; LCPH ATI 3612 / PTO 3626; LCPH ATI 3614 / PTO 3627; LCPH ATI 3616 / PTO 3628; LCPH ATI 3617 / PTO 3631; LCPH ATI 3618 / PTO 3632; LCPH ATI 3619 / PTO 3633; LCPH ATI 3620 / PTO 3634; LCPH ATI 3621 / PTO 3635; LCPH ATI 3786 / PTO 3636; LCPH ATI 3787 / PTO 3637; LCPH ATI 3788 / PTO 3638; LCPH ATI 3789 / PTO 3639; LCPH ATI 3790 / PTO 3640; LCPH ATI 3791 / PTO 3641; LCPH ATI 3792 / PTO 3642

Operating Condition Monitoring and Recordkeeping:

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 maintain a record of all maintenance and inspections completed on the control equipment.

Authority for Requirement: LCPH ATI 3588 / PTO 3613; LCPH ATI 3589 / PTO 3614; LCPH ATI 3590 / PTO 3615; LCPH ATI 3591 / PTO 3616; LCPH ATI 3596 / PTO 3938; LCPH ATI 3597 / PTO 3939; LCPH ATI 3598 / PTO 3620; LCPH ATI 3599 / PTO 3621; LCPH ATI 3600 / PTO 3622; LCPH ATI 3601 / PTO 3623; LCPH ATI 3602 / PTO 3629; LCPH ATI 3603 / PTO 3630; LCPH ATI 3604 / PTO 3940; LCPH ATI 3605 / PTO 3941; LCPH ATI 3606 / PTO 3942; LCPH ATI 3608 / PTO 3624; LCPH ATI 3609 / PTO 3625; LCPH ATI 3612 / PTO 3626; LCPH ATI 3614 / PTO 3627; LCPH ATI 3616 / PTO 3628; LCPH ATI 3617 / PTO 3631; LCPH ATI 3618 / PTO 3632; LCPH ATI 3619 / PTO 3633; LCPH ATI 3620 / PTO 3634; LCPH ATI 3621 / PTO 3635; LCPH ATI 3786 / PTO 3636; LCPH ATI 3787 / PTO 3637; LCPH ATI 3788 / PTO 3638; LCPH ATI 3789 / PTO 3639; LCPH ATI 3790 / PTO 3640; LCPH ATI 3791 / PTO 3641; LCPH ATI 3792 / PTO 3642

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

| EP | LCPH ATI / PTO | Stack Height (feet, above ground) | Discharge Style | Stack Opening (inches, dia.) | Exhaust Temp. (°F) | Exhaust Flowrate (acfm) |
|----|----------------|-----------------------------------|-----------------|------------------------------|--------------------|-------------------------|
| 33 | 3588 / 3613 | 50 | VR | 12 | 70 | Passive Displacement |
| 34 | 3589 / 3614 | 91.5 | VR | 12 | 70 | Passive Displacement |
| 35 | 3590 / 3615 | 91.5 | VR | 12 | 70 | Passive Displacement |
| 36 | 3591 / 3616 | 91.5 | VR | 12 | 70 | Passive Displacement |
| 41 | 3596 / 3938 | 64.5 | VR | 12 | 70 | Passive Displacement |
| 42 | 3597 / 3939 | 64.5 | VR | 12 | 70 | Passive Displacement |
| 43 | 3598 / 3620 | 64.5 | VR | 12 | 70 | Passive Displacement |
| 44 | 3599 / 3621 | 64.5 | VR | 12 | 70 | Passive Displacement |
| 45 | 3600 / 3622 | 64.5 | VR | 12 | 70 | Passive Displacement |
| 46 | 3601 / 3623 | 64.5 | VR | 12 | 70 | Passive Displacement |
| 47 | 3602 / 3629 | 64.5 | VR | 12 | 70 | Passive Displacement |
| 48 | 3603 / 3630 | 64.5 | VR | 12 | 70 | Passive Displacement |
| 49 | 3604 / 3940 | 64.5 | VR | 12 | 70 | Passive Displacement |
| 50 | 3605 / 3941 | 66 | VR | 12 | 70 | Passive Displacement |
| 51 | 3606 / 3942 | 64.5 | VR | 12 | 70 | Passive Displacement |
| 53 | 3608 / 3624 | 84 | VR | 12 | 70 | Passive Displacement |
| 54 | 3609 / 3625 | 78 | VR | 12 | 70 | Passive Displacement |
| 55 | 3612 / 3626 | 78 | VR | 12 | 70 | Passive Displacement |
| 56 | 3614 / 3627 | 78 | VR | 12 | 70 | Passive Displacement |
| 57 | 3616 / 3628 | 78 | VR | 12 | 70 | Passive Displacement |
| 62 | 3617 / 3631 | 78 | VR | 12 | 70 | Passive Displacement |
| 63 | 3618 / 3632 | 78 | VR | 12 | 70 | Passive Displacement |
| 64 | 3619 / 3633 | 78 | VR | 12 | 70 | Passive Displacement |
| 65 | 3620 / 3634 | 78 | VR | 12 | 70 | Passive Displacement |

| EP | LCPH ATI / PTO | Stack Height (feet, above ground) | Discharge Style | Stack Opening (inches, dia.) | Exhaust Temp. (°F) | Exhaust Flowrate (acfm) |
|----|-------------------|--------------------------------------|-----------------|------------------------------------|--------------------------|----------------------------|
| 66 | 3621 / 3635 | 84 | VR | 12 | 70 | Passive Displacement |
| 72 | 3786 / 3636 | 54.5 | VR | 12 | 70 | Passive Displacement |
| 73 | 3787 / 3637 | 54.5 | VR | 12 | 70 | Passive Displacement |
| 74 | 3788 / 3638 | 54.5 | VR | 12 | 70 | Passive Displacement |
| 75 | 3789 / 3639 | 52.5 | VR | 12 | 70 | Passive Displacement |
| 76 | 3790 / 3640 | 52.5 | VR | 12 | 70 | Passive Displacement |
| 77 | 3791 / 3641 | 52.5 | VR | 12 | 70 | Passive Displacement |
| 78 | 3792 / 3642 | 52.5 | VR | 12 | 70 | Passive Displacement |

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.

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: 67, 68, 69, 70, 71

Associated Equipment.

| EP | EU | EU Description | Raw Material | Rated Capacity | CE ID | CE Description |
|----|-----|----------------|--------------|----------------|-------|----------------|
| 67 | 76C | BR201 | Yeast | 55 gal/hr | -- | -- |
| 68 | 77 | BR301 | Yeast | 150 gal/hr | | |
| 69 | 78 | BR401 | Yeast | 410 gal/hr | | |
| 70 | 79 | BR501 | Yeast | 410 gal/hr | | |
| 71 | 80 | BR601 | Yeast | 410 gal/hr | | |

Applicable Requirements

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

The emissions from the entire yeast growth systems (EP67, EP68, EP69, EP70 and EP71) shall not exceed the levels specified below.

Emission Limits.

| EP | Pollutant | Emission Limit(s) | Authority for Requirement |
|--------------------|-----------|---------------------|--|
| 67, 68, 69, 70, 71 | VOC | 2.6 lb/hr; 11.5 tpy | LCPH ATI 3863 / PTO 3918 LCPH ATI 3864 / PTO 3919 LCPH ATI 3862 / PTO 3920 LCPH ATI 3861 / PTO 3921 LCPH ATI 3860 / PTO 3922 LCO 10.7 |

Operational Limits & Requirements

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

Operating Limits:

A. The process rate for the entire yeast growth system (EU's 76C, 77, 78, 79 and 80) shall be limited to 24,000 gallons per day calculated on a 12-month rolling basis.

Authority for Requirement: LCPH ATI 3863 / PTO 3918; LCPH ATI 3864 / PTO 3919
LCPH ATI 3862 / PTO 3920; LCPH ATI 3861 / PTO 3921
LCPH ATI 3860 / PTO 3922

Operating Condition Monitoring and Recordkeeping:

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 the gallon per day process rate on a monthly and 12-month rolling total basis (gal/hr).

B. The owner or operator shall monitor and record the gallon per day process rate for the entire yeast growth system (EU's 76C, 77, 78, 79 and 80) on a monthly and 12-month rolling total basis.

Authority for Requirement: LCPH ATI 3863 / PTO 3918; LCPH ATI 3864 / PTO 3919
LCPH ATI 3862 / PTO 3920; LCPH ATI 3861 / PTO 3921
LCPH ATI 3860 / PTO 3922

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

| EP | LCPH ATI / PTO | Stack Height (feet, above ground) | Discharge Style | Stack Opening (inches, dia.) | Exhaust Temp. (°F) | Exhaust Flowrate (acfm) |
|----|-------------------|--------------------------------------|-----------------|---------------------------------|--------------------------|-------------------------------|
| 67 | 3863 / 3918 | 46.08 | D | 2 | 86 | 176 |
| 68 | 3864 / 3919 | 47.65 | D | 3.75 | 86 | 212 |
| 69 | 3862 / 3920 | 47.83 | D | 5.69 | 86 | 1469 |
| 70 | 3861 / 3921 | 48.05 | D | 5.69 | 86 | 1469 |
| 71 | 3860 / 3922 | 48.05 | D | 5.69 | 86 | 1469 |

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 periodic requirements listed below.

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: 100

Associated Equipment.

| EP | EU | EU Description | Raw Material | Rated Capacity | CE ID | CE Description | CE ID / Description |
|---------|-----|--|--------------|--|---|--|---------------------|
| 20, 100 | 94 | Raw Materials Transfer to Dryers 3 & 4 | Grain | 4.75 tph | CE-94 | Baghouse | CE-100 / RTO |
| | 24 | Dryer 3 – Yeast Culture Drying | Feed | 2.4 tph RTO controlled OR 1.6 tph uncontrolled and 0.8 tph RTO controlled | CE-12A CE-12B CE-12C | Cyclone A Cyclone B Cyclone C | |
| | 24 | Dryer 3 – Concentrated Yeast Drying | Feed | 0.7 tph RTO controlled OR 0.47 tph uncontrolled and 0.23 tph RTO controlled | | | |
| | 24 | Dryer 3 – Lactobacillus Drying | Feed | 0.55 tph RTO controlled OR 0.37 tph uncontrolled and 0.18 tph RTO controlled | | | |
| | 25 | Dryer 3 – Natural Gas Burner | Natural Gas | 5.2 MMBtu/hr | | | |
| | 98 | Dryer 3 Finished Product Pneumatic Conveying | Feed | 2.4 tph | CE-98 | Baghouse | |
| 100 | 100 | Dryer 4 – Yeast Culture Drying | Feed | 2.4 tph OR 3.2 tph when Dryer 3 is operating | CE-100 CE-100A CE-100B CE-100C | RTO Cyclone A Cyclone B Cyclone C | |
| | 100 | Dryer 4 – Concentrated Yeast Drying | Feed | 0.7 tph OR 0.93 tph when Dryer 3 is operating | | | |
| | 100 | Dryer 4 – Lactobacillus Drying | Feed | 0.7 tph OR 0.93 tph when Dryer 3 is operating | | | |
| | 101 | Dryer 4 – Natural Gas Burner | Natural Gas | 5.2 MMBtu/hr | | | |
| | 102 | RTO – Natural Gas Burner | Natural Gas | 9.4 MMBtu/hr | CE-100 | RTO | |

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.

Emission Limits.

| EP | Pollutant | Emission Limit(s) | Authority for Requirement |
|-----|---------------------------|-------------------|---------------------------|
| 100 | PM/PM ₁₀ | 1.53 lb/hr | LCPH ATI 6691 / PTO 6463 |
| | VOC | 2.96 lb/hr | |
| | Single HAP ⁽¹⁾ | 2.37 lb/hr | |

⁽¹⁾ Acetaldehyde

General Emission Limits.

| EP | Pollutant | Emission Limit(s) | Authority for Requirement |
|-----|-----------------|-------------------|--|
| 100 | PM | 0.1 gr/dscf | LCPH ATI 6691 / PTO 6463 567 IAC 23.4(7) LCO 10.9(1)"g" |
| | | 0.51 lb/MMbtu | LCPH ATI 6691 / PTO 6463 LCO 10.8(1)"c" |
| | Opacity | 20% | LCPH ATI 6691 / PTO 6463 LCO 10.7 |
| | SO ₂ | 500 ppmv | LCPH ATI 6691 / PTO 6463 567 IAC 23.3(3)"e" LCO 10.12(2) |

Operational Limits & Requirements

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

Control Equipment.

| EP ID | EU | Description | CE ID | Description | CE ID / Description |
|---------|-----|--|-------------------|-------------------------------------|---------------------|
| 20, 100 | 94 | Raw Materials Transfer to Dryers 3 & 4 | 94 | Baghouse | CE-100 / RTO |
| | 24 | Dryer 3 – Yeast Culture Drying | 12A 12B 12C | Cyclone A Cyclone B Cyclone C | |
| | 24 | Dryer 3 – Concentrated Yeast Drying | | | |
| | 24 | Dryer 3 – Lactobacillus Drying | | | |
| | 25 | Dryer 3 – Natural Gas Burner | | | |
| | 98 | Dryer 3 Finished Product Pneumatic Conveying | 98 | Baghouse | |
| 100 | 102 | RTO Natural Gas Burner | 100 | RTO | |
| | 100 | Tunnel Dryer 4 – Yeast Culture Drying | 100A 100B | Cyclone A Cyclone B | |
| | 101 | Dryer 4 – Natural Gas Burner | 100C | Cyclone C | |

The control equipment listed above shall be installed to control particulate matter and VOC emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. When Dryer 4 (EU-100) is not operating, 100% of airflow from Dryer 3 (EU-24) shall be routed through The RTO (CE-100) and discharged out EP-100. All appropriate probes, monitors and gauges needed to measure the parameters outlined in condition "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control devices at all times.

Authority for Requirement: LCPH ATI 6691 / PTO 6463

Operating Limits:

- A. EU-25, EU-101 and EU-102 shall be limited to combusting natural gas only.
- B. CE-94, CE-96 CE-12A, CE-12B, CE-12C, CE-100A, CE-100B, CE-100C and CE-100 shall be maintained according to the manufacturer's specifications and good operating practices.
- C. The differential pressure across each baghouse (CE-94 and CE-98) shall be maintained between 0.1" and 8.0" w.c.
- D. The Regenerative Thermal Oxidizer (CE-100) shall maintain a chamber temperature (3-hour block average) during operation of no lower than 1450 degrees Fahrenheit.
- E. When only Dryer 4 is operating, the D3 RTO Exhaust Valve (FCV-2905) will be set at 0% (open), only allowing exhaust from Dryer 4 to enter the RTO. The Dryer 3 Heat Exchanger Exhaust Valve (FCV-2921) that vents to the atmosphere will operate at 100% (open).

- F. When only Dryer 3 is operating, the D3 RTO Exhaust Valve (FCV-2905) will be set at 60% (open) sending all exhaust through the RTO. In this case, the D3 Heat Exchanger Exhaust Valve that vents to the atmosphere operates at 0% (open).
 - G. In the case when both Dryer 3 and Dryer 4 are operating, the D3 RTO Exhaust Valve (FCV-2905) will operate at $\geq 15\%$ (open) to allow approximately one third of the airflow to go to the RTO while controlling the back pressure in the D3 duct. The D3 Heat Exchanger Exhaust Valve will operate at 85% (open), allowing the remaining two thirds of the exhaust stream to exhaust to the atmosphere.
 - H. Diamond V will monitor the valve positions electronically each time the operating scenario changes. Valve positions are controlled by an electronic system which has alarms set if they go out of range.
 - I. The HAP emissions from the production of concentrated yeast and lactobacillus products shall not exceed 9.4 tons/yr calculated on a 12-month rolling total basis. Diamond V shall calculate the actual emissions using the most current Department approved test results for each yeast product produced.
- Authority for Requirement: LCPH ATI 6691 / PTO 6463

Operating Condition Monitoring and Recordkeeping:

Unless specified by a federal regulation, 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. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. The owner or operator shall maintain records verifying the fuel used in EU-25, EU-101 and EU-102.
- B. The owner or operator shall monitor and record the differential pressure across each baghouse (CE-94 and CE-98) on a weekly basis.
- C. The owner or operator shall maintain a record of all maintenance completed on each baghouse (CE-94 and CE-98).
- D. The owner or operator shall maintain a record of all maintenance completed on the RTO (CE-100).
- E. 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.
- F. The owner or operator shall continuously monitor the three-hour block average operating temperature of the Regenerative Thermal Oxidizer (CE-100), and record all three-hour periods (during actual operations) when the average temperature of the thermal oxidizer falls below 1450 degrees Fahrenheit.
- G. The owner or operator shall be able to document the actual operating schedules of Dryer 3 (EU-24) and Dryer 4 (EU-100) in order to demonstrate compliance with "Operating Limits" conditions E, F and G.
- H. Record each month the sum of actual HAP emissions from the production of concentrated yeast and Lactobacillus products.
- I. Record each month the 12-month rolling total HAP emissions from the production of concentrated yeast and Lactobacillus products.

Authority for Requirement: LCPH ATI 6691 / PTO 6463

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

| EP | LCPH ATI / PTO | Stack Height (feet, above ground) | Discharge Style | Stack Opening (inches, dia.) | Exhaust Temp. (°F) | Exhaust Flowrate (acfm) |
|-----|-------------------|--------------------------------------|-----------------|------------------------------------|--------------------------|-------------------------------|
| 100 | 6691 / 6463 | 72.17 | V | 48 | 125 | 44151 |

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 or 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 shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

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 <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| Facility Maintained Operation & Maintenance Plan Required? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| Compliance Assurance Monitoring (CAM) Plan Required? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |

**Compliance Assurance Monitoring (CAM) Plan CE-100
Thermal Oxidizer for Dryer #4 & Dryer #3**

Thermal Oxidizer Parameters

- Associated Emission Unit(s): EU-100, EU-101, EU-102, EU-94, EU-24, EU-25, EU-98
- Associated Emission Point: 100
- Pollutants Controlled: VOC, HAP

Applicable Requirements

VOC emissions shall not exceed 2.96 lb/hr and HAP (acetaldehyde) emissions shall not exceed 2.37 lb/hr.

Monitoring Approach

General Monitoring Guidelines

CAM involves the observation of control equipment compliance indicators: oxidizer operating temperature and destruction efficiency as established through performance testing. This plan defines acceptable ranges for these indicators. CAM also includes monitoring and control equipment maintenance and inspections. Maintenance and inspections that will facilitate good monitoring and control equipment operations are identified in this plan as well as testing pollutant emission rates.

Excursion from Compliance Indicators

- An excursion occurs when an observed compliance indicator is outside of its defined acceptable indicator range. An excursion does not necessarily indicate a violation of applicable permit terms, conditions, and/or requirements. However, an excursion is a deviation that must be reported in the Semi-Annual Monitoring Report and Annual Compliance Certification Report.
- Diamond V Mills will take corrective action in accordance with the severity of the excursion. Corrective actions will begin as soon as possible, but no later than eight hours from the observation of the excursion. (Abnormal conditions discovered through equipment inspection and maintenance requires implementation of remediation within a reasonable timeframe. Dryer #4 will not continue processing until the thermal oxidizer is operational.)
- If corrective actions do not return the compliance indicator to its defined acceptable indicator range, Diamond V Mills will demonstrate compliance with the VOC limit by conducting

- Source testing within 90 days of the excursion.
 - If the test demonstrates compliance with emission limits, Diamond V Mills will determine new indicator ranges for monitoring based on the testing results.
 - If the test demonstrates noncompliance with emission limits, Diamond V Mills will, within 60 days, propose a schedule to implement corrective action to bring the source into compliance and conduct source testing to demonstrate compliance.
- Report monitoring or other deviations (operating conditions, emission limits, or reporting requirements) in DNR semi-annual monitoring and annual compliance certification reports.

Compliance Indicator Ranges

- Oxidizer Operating Temperature
 - Acceptable indicator range: Greater than or equal to 1475°F (3-hour block average) with the exception of start-up, shutdown, and cleaning of the control equipment.
- Destruction Efficiency as Established Through Performance Testing
 - Acceptable indicator range: Not less than 94% destruction (3 hour average) of volatile organic compounds during operation which is based on the performance test conducted on February 6, 2001.

Monitoring Methods

- **Continuously**
 - Operating temperature in the combustion zone is monitored continuously.
 - Alarms and shut down mechanisms are in place if fan motor or dampers fail.
- **Annually**
 - Annual Inspection.
 - Annual Bakeout.
 - Annual inspection of temperature control instruments. Calibrate as required.
 - Annual cleaning of UV scanner sight lens.

Performance Criteria

Data Representativeness

An exceedance of the indicator oxidizer temperature could reveal a decrease in performance of the thermal oxidizer and potentially result in an increase in VOC emissions. A decrease in performance of the thermal oxidizer may indicate a reduction in pollutant destruction efficiency allowing for an increase in VOC emissions.

Recordkeeping and Reporting (Verification of Operational Status)

- Diamond V Mills will maintain written or electronic records of the following:
 - Thermal oxidizer operating temperature.
 - All continuously and annually required inspections and maintenance.
 - All corrective actions resulting from inspections and maintenance.
 - Excursions and excess emission reports.
- Records will be kept for at least five years and be available upon request.

Quality Control

- The thermal oxidizer will be operated and maintained as outlined in the above monitoring requirements.

Data Collection Procedures

- An electronic log is kept continuously for the thermal oxidizer operating temperature.
- Maintenance personnel record all maintenance/inspections performed on the thermal oxidizer and actions resulting from their inspections.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 105, 106, 107, 108

Associated Equipment.

| EP | EU | EU Description | Raw Material | Rated Capacity | CE ID | CE Description |
|-----|-----|--------------------------|--------------|----------------|--------|-------------------|
| 105 | 105 | Building 7 Mixer | Grain | 12.5 tph | CE-105 | Single Bag Filter |
| 106 | 106 | Building 10 Weigh Hopper | Grain | 12.5 tph | CE-106 | Single Bag Filter |
| 107 | 107 | Building 10 Mixer | Grain | 12.5 tph | CE-107 | Single Bag Filter |
| 108 | 108 | Building 7 Surge Feeder | Grain | 12.5 tph | CE-108 | Single Bag Filter |

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.

General Emission Limits.

| EP | Pollutant | Emission Limit(s) | Authority for Requirement |
|--------------------|-----------|-------------------|---|
| 105, 106, 107, 108 | PM | 0.1 gr/dscf | LCPH ATI 6189 / PTO 5983 LCPH ATI 6190 / PTO 5987 LCPH ATI 6191 / PTO 5988 LCPH ATI 6214 / PTO 5984 567 IAC 23.4(7) LCO 10.9(1)"g" |
| | Opacity | No VE | LCPH ATI 6189 / PTO 5983 LCPH ATI 6190 / PTO 5987 LCPH ATI 6191 / PTO 5988 LCPH ATI 6214 / PTO 5984 LCCO 10.5(3)"b" |

Operational Limits & Requirements

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

Control Device:

A single bag filter shall be installed to control particulate matter 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 operated during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 6189 / PTO 5983; LCPH ATI 6190 / PTO 5987
LCPH ATI 6190 / PTO 5988; LCPH ATI 6214 / PTO 5984

Operating Limits:

A. The control equipment shall be maintained according to the manufacturer's specifications and good operating practices.

Authority for Requirement: LCPH ATI 6189 / PTO 5983; LCPH ATI 6190 / PTO 5987
LCPH ATI 6190 / PTO 5988; LCPH ATI 6214 / PTO 5984

Operating Condition Monitoring and Recordkeeping:

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 maintain a record of all maintenance and inspections completed on the control equipment.

Authority for Requirement: LCPH ATI 6189 / PTO 5983; LCPH ATI 6190 / PTO 5987
LCPH ATI 6190 / PTO 5988; LCPH ATI 6214 / PTO 5984

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

| EP | LCPH ATI / PTO | Stack Height (feet, above ground) | Discharge Style | Stack Opening (inches, dia.) | Exhaust Temp. (°F) | Exhaust Flowrate (acfm) |
|-----|----------------|-----------------------------------|-----------------|------------------------------|--------------------|-------------------------|
| 105 | 6189 / 5983 | N/A | I | N/A | N/A | Passive Displacement |
| 106 | 6190 / 5987 | N/A | I | N/A | N/A | Passive Displacement |
| 107 | 6191 / 5988 | N/A | I | N/A | N/A | Passive Displacement |
| 108 | 6214 / 5984 | N/A | I | N/A | N/A | Passive Displacement |

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.

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)

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 and Linn County Code of Ordinance (LCCO) Chapter 10, paragraph 10.4.

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"*
6. For applicable requirements with which the permittee is in compliance, the permittee shall continue to comply with such requirements. For applicable requirements that will become effective during the permit term, the permittee shall meet such requirements on a timely basis. *567 IAC 22.108(15)"c"*

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 U.S. EPA Region VII, Attention: Chief of Air Permits, 11201 Renner Blvd., Lenexa, KS 66219. 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 Linn County Public Health Air Quality Division. 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 Linn County Public Health Air Quality Division. 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" and LCCO 10.22*

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" and LCCO 10.18 and 10.19*

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) and LCCO 10.14(2)*

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) and LCCO 10.16(1)*

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. A variance from this subrule may be available as provided for in Iowa Code section 455B.143. 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. Initial 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 initial 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 initial report may be made by electronic mail (E-mail), 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 initial 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) and LCCO 10.14*
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 situation 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 fulfills the requirement of paragraph 22.108(5)"b." – See G15. This

notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof. This provision is in addition to any emergency or upset provision contained in any applicable requirement. *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) This notification must be made to Linn County Air Quality Division, in lieu of the Department, upon adoption of the NSPS or NESHAP into Chapter 10.*

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 (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B));
 - e. The changes comply with all applicable requirements.
 - f. For each such 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 does 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 Title V Permit Modification.
 - a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:
 - i. Do not violate any applicable requirement;
 - 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 an 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 under rule 567 - 22.113(455B).
- 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 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, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V 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, as those requirements that apply to Title V issuance and renewal.

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 22.111-567 IAC 22.113*

G19. Duty to Obtain Construction Permits

Unless exempted in 567 IAC 22.1(2) or to meet the parameters established in 567 IAC 22.1(1)"c", the permittee shall not construct, install, reconstruct or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, or conditional permit, or permit pursuant to rule 567 IAC 22.8, or permits required pursuant to rules 567 IAC 22.4, 567 IAC 22.5, 567 IAC 31.3, and 567 IAC 33.3 as required in 567 IAC 22.1(1). A permit shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source or anaerobic lagoon. *567 IAC 22.1(1) and LCCO 10.5*

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 (*567 IAC 23.1(3)"a"*); training fires and controlled burning of a demolished building (*567 IAC 23.2*).

G21. Open Burning

The permittee is prohibited from conducting open burning, except as may be allowed by LCCO 10.10.

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)
5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. 567 IAC 22.114(3)

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) and LCCO 10.27*

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 consistent with the requirements of *567 IAC 22.111(1). 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. 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. If the owner or operator does not provide timely notice to the department, the department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department's request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. 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) 725-9545

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

567 IAC 25.1(7)"a", 567 IAC 25.1(9) and LCCO 10.17

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
U.S. EPA Region 7
Air Permits and Compliance Branch
11201 Renner Blvd.
Lenexa, KS 66219
(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) 725-9500

Reports or notifications to the local program shall be directed to the supervisor at the appropriate local program. Current address and phone number is:

Linn County Public Health
Air Quality Division
1240 26th Avenue Ct SW
Cedar Rapids, IA 52404
(319) 892-6000

V. APPENDIX A

40 CFR part 63 Subpart DDDDD – *National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters*

A link to the current final rule can be found at the link below:

<http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr&rgn=div6&view=text&node=40:14.0.1.1.1.5>

A listing of all the promulgated MACT rules, EPA Region 7 staff contact information (for questions pertaining to the rule), compliance assistance links and a link to each MACT can be found at the link below:

http://www.epa.gov/region07/air/toxics/mact_standard_contacts.htm