

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

**Name of Permitted Facility: OSI Industries, LLC**  
**Facility Location: 21876 North Highway 59, Oakland, Iowa 51560**  
**Air Quality Operating Permit Number: 16-TV-001R1-M001**  
**Expiration Date: October 17, 2026**  
**Permit Renewal Application Deadline: April 17, 2026**

**EIQ Number: 92-6979**  
**Facility File Number: 78-04-001**

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**Responsible Official**

**Name: Phil Paulk**  
**Title: AVP & General Manager**  
**Mailing Address: 21876 North Highway 59, Oakland, IA 51560**  
**Phone #: 712-566-1300**

**Permit Contact Person for the Facility**

**Name: Aaron Gordon**  
**Title: Engineer**  
**Mailing Address: 21876 North Highway 59**  
**Phone #: 712-566-1300**

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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**

*Marnie Stein*

01/19/2023

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Marnie Stein, Supervisor of Air Operating Permits Section

Date

# Table of Contents

<b>I. Facility Description and Equipment List .....</b>	<b>4</b>
<b>II. Plant - Wide Conditions.....</b>	<b>7</b>
<b>III. Emission Point Specific Conditions .....</b>	<b>9</b>
<b>IV. General Conditions.....</b>	<b>49</b>
G1. Duty to Comply	
G2. Permit Expiration	
G3. Certification Requirement for Title V Related Documents	
G4. Annual Compliance Certification	
G5. Semi-Annual Monitoring Report	
G6. Annual Fee	
G7. Inspection of Premises, Records, Equipment, Methods and Discharges	
G8. Duty to Provide Information	
G9. General Maintenance and Repair Duties	
G10. Recordkeeping Requirements for Compliance Monitoring	
G11. Evidence used in establishing that a violation has or is occurring.	
G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification	
G13. Hazardous Release	
G14. Excess Emissions and Excess Emissions Reporting Requirements	
G15. Permit Deviation Reporting Requirements	
G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations	
G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification	
G18. Duty to Modify a Title V Permit	
G19. Duty to Obtain Construction Permits	
G20. Asbestos	
G21. Open Burning	
G22. Acid Rain (Title IV) Emissions Allowances	
G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements	
G24. Permit Reopenings	
G25. Permit Shield	
G26. Severability	
G27. Property Rights	
G28. Transferability	
G29. Disclaimer	
G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification	
G31. Prevention of Air Pollution Emergency Episodes	
G32. Contacts List	

**V. Appendix.....64**

A. 40 CFR Part 60 Subpart III – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

B. 40 CFR Part 63 Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

C. 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial- Institutional Steam Generating Units

**Abbreviations**

acfm.....actual cubic feet per minute

CFR.....Code of Federal Regulation

CE .....control equipment

CEM.....continuous emission monitor

°F .....degrees Fahrenheit

EIQ.....emissions inventory questionnaire

EP.....emission point

EU .....emission unit

gr./dscf .....grains per dry standard cubic foot

gr./100 cf.....grains per one hundred cubic feet

IAC.....Iowa Administrative Code

IDNR.....Iowa Department of Natural Resources

MVAC.....motor vehicle air conditioner

NAICS.....North American Industry Classification System

NSPS .....new source performance standard

ppmv .....parts per million by volume

lb./hr.....pounds per hour

lb./MMBtu .....pounds per million British thermal units

SCC.....Source Classification Codes

scfm.....standard cubic feet per minute

SIC.....Standard Industrial Classification

TPY .....tons per year

USEPA.....United States Environmental Protection Agency

**Pollutants**

PM.....particulate matter

PM<sub>10</sub>.....particulate matter ten microns or less in diameter

SO<sub>2</sub>.....sulfur dioxide

NO<sub>x</sub> .....nitrogen oxides

VOC.....volatile organic compound

CO.....carbon monoxide

HAP.....hazardous air pollutant

# I. Facility Description and Equipment List

Facility Name: OSI Industries, LLC  
 Permit Number: 16-TV-001R1-M001

Facility Description: Sausages and Other Prepared Meats (SIC 2013)

## Equipment List

Emission Point Number (EP-)	Emission Unit Number (EU-)	Emission Unit Description	DNR Construction Permit Number
WH 2	WH 2	Water Heater	15-A-503
WH 3	WH 3	Water Heater	15-A-504
B4	B4	Miura Boiler #4	18-A-416
HD 1	HD 1	Steam Heated Smokehouse 1	08-A-089-S2
HD 2	HD 2	Steam Heated Smokehouse 2	08-A-090-S2
HD 3	HD 3	Steam Heated Smokehouse 3	08-A-091-S2
HD 4	HD 4	Steam Heated Smokehouse 4	08-A-092-S2
HD 5	HD 5	Steam Heated Smokehouse 5	08-A-093-S2
HD 6	HD 6	Steam Heated Smokehouse 6	08-A-094-S2
HD 7	HD 7	Steam Heated Smokehouse 7	08-A-095-S2
HD 8	HD 8	Steam Smokehouse Vent	16-A-433
BAC 1	BAC 1	Alkar Nat. Gas Smokehouse	08-A-096-S3
BAC 2	BAC 2	Alkar Nat. Gas Smokehouse	08-A-097-S3
BAC 3	BAC 3 BAC 3A	Marlen Nat. Gas Smokehouse	08-A-098-S4
BAC 4	BAC 4	Marlen Nat. Gas Smokehouse	08-A-099-S3
MW 1	MW 1	Ferritt Microwave Cooking Line #1	08-A-100-S1
MW 2	MW 2	Ferritt Microwave Cooking Line #2	08-A-101-S2
MW 3	MW 3	Ferritt Microwave Cooking Line #3	08-A-102-S3
MW 4	MW 4	Ferritt Microwave Cooking Line #4	08-A-103-S2
MW 5	MW 5	AMTEK Microwave Cooking Line #5	08-A-104-S3
MW 6	MW 6	AMTEK Microwave Cooking Line #6	08-A-105-S3
MW 7	MW 7	AMTEK Microwave Cooking Line #7	08-A-106-S3
FOF 2	FOF 1	Fair Oaks Farms Cooking Line #1	08-A-107-S4
FOF 1	FOF 1	Fair Oaks Farms Cooking Line #1	08-A-109-S4
FOF 3	FOF 2	Fair Oaks Farms Cooking Line #2	08-A-110-S4
FOF 4	FOF 2	Fair Oaks Farms Cooking Line #2	08-A-108-S4
FOF 5	FOF 1	Fair Oaks Farms Cooking Line #1	12-A-006-S3
FOF 6	FOF 2	Fair Oaks Farms Cooking Line #2	12-A-007-S3
IR 6	IR	IR Cooking Line & IR Lamps	18-A-090
KBD 2	KBD 1	KBD Cooking Line #1	08-A-111-S4
IR 7	IR	IR Cooking Line & IR Lamps	18-A-091

<b>Emission Point Number (EP-)</b>	<b>Emission Unit Number (EU-)</b>	<b>Emission Unit Description</b>	<b>DNR Construction Permit Number</b>
IR 8	IR	IR Cooking Line & IR Lamps	18-A-092
IR 9	IR	IR Cooking Line & IR Lamps	18-A-093
G3	G3	Caterpillar Diesel IC Engine – Emergency	10-A-112
WWL	WWL	Anaerobic Lagoons	12-A-205
CHILL 1-6	CHILL 1-6	Purchased CO <sub>2</sub> (used in chillers, freezers, blenders)	12-A-204-S1
G1	G1	Emergency Diesel Generator (343 hp)	NA

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### **Insignificant Activities Equipment List**

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<b>Insignificant Emission Unit Number</b>	<b>Insignificant Emission Unit Description</b>
EU F1	Folton Heater 6.0 MMBtu/hr
EU B1	West Boiler 8.38 MMBtu/hr N. Gas
EU B2	East Boiler 8.38 MMBtu/hr N. Gas
EU MAU1	Makeup Air Unit 2.9156 MMBtu/hr
EU MAU2	Makeup Air Unit 1.944 MMBtu/hr
EU MAU3	Makeup Air Unit 1.589 MMBtu/hr
EU MAU4	Makeup Air Unit 5.594 MMBtu/hr
EU MAU5	Makeup Air Unit 1.598 MMBtu/hr
EU MAU6	Makeup Air Unit 2.078 MMBtu/hr
EU MAU7	Makeup Air Unit 1.199 MMBtu/hr
EU MAU8	Makeup Air Unit 2.877 MMBtu/hr
EU MAU9	Makeup Air Unit 2.877 MMBtu/hr
EU MAU10	Makeup Air Unit 0.383 MMBtu/hr
EU MAU11	Makeup Air Unit 2.078 MMBtu/hr
EU MAU12	Makeup Air Unit 2.078 MMBtu/hr
EU MAU13	Makeup Air Unit 3.836 MMBtu/hr
EU MAU14	Makeup Air Unit 0.194 MMBtu/hr
EU MAU15	Makeup Air Unit 0.799 MMBtu/hr
EU MAU16	Makeup Air Unit 0.799 MMBtu/hr
EU MAU17	Makeup Air Unit 0.1555 MMBtu/hr
EU MAU18	Makeup Air Unit 1.199 MMBtu/hr
EU MAU19	Makeup Air Unit 1.199 MMBtu/hr
EU MAU20	Makeup Air Unit 0.500 MMBtu/hr
EU MAU21	Makeup Air Unit 2.0 MMBtu/hr
EU MAU22	Makeup Air Unit 3.0 MMBtu/hr
EU MAU23	Makeup Air Unit 1.598 MMBtu/hr
EU MAU24	Makeup Air Unit 0.778 MMBtu/hr
EU MAU25	Makeup Air Unit 1.927 MMBtu/hr
EU MAU26	Makeup Air Unit 1.927 MMBtu/hr
EU RMAU1	Refrigerated Makeup Air Unit 3.24 MMBtu/hr
EU RMAU2	Refrigerated Makeup Air Unit 1.36 MMBtu/hr
EU RMAU3	Refrigerated Makeup Air Unit 5.90 MMBtu/hr

<b>Insignificant Emission Unit Number</b>	<b>Insignificant Emission Unit Description</b>
EU RMAU4	Refrigerated Makeup Air Unit 2.527 MMBtu/hr
EU RMAU5	Refrigerated Makeup Air Unit 2.60 MMBtu/hr
EU RMAU6	Refrigerated Makeup Air Unit 1.60 MMBtu/hr
EU RMAU7	Refrigerated Makeup Air Unit 8.252 MMBtu/hr
EU RW1	Wash Rack – Chemical Usage
T1	2000 gallon chemical tank
T2	2000 gallon chemical tank
T3	2000 gallon chemical tank
B3	Miura Boiler 6.695 MMBtu
EU GEN4	1000 gallon day tank
EU GEN2	205 gallon day tank
EU HC1	Imping. Oven 0.35 MMBtu
EU HC2	Imping. Oven 0.10 MMBtu

## II. Plant-Wide Conditions

Facility Name: OSI Industries, LLC  
Permit Number: 16-TV-001R1-M001

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

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### Permit Duration

The term of this permit is: 5 years  
Commencing on: October 18, 2021  
Ending on: October 17, 2026

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

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### Emission Limits

*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): 40% opacity  
Authority for Requirement: 567 IAC 23.3(2)"d"

Sulfur Dioxide (SO<sub>2</sub>): 500 parts per million by volume  
Authority for Requirement: 567 IAC 23.3(3)"e"

#### 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 on or after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.

For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).  
Authority for Requirement: 567 IAC 23.3(2)"a"

Fugitive Dust: Attainment and Unclassified Areas - 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, fertilizer 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"

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### III. Emission Point-Specific Conditions

Facility Name: OSI Industries, LLC  
Permit Number: 16-TV-001R1-M001

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#### Emission Point ID Number: EP WH2

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Emission Unit vented through this Emission Point: EU – WH2  
Emission Unit Description: Direct Fired Hot Water Heater #2  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 15 MMBtu/ hr

#### Applicable Requirements

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

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

Pollutant: Particulate Matter (PM) - State  
Emission Limit(s): 0.15 lb/hr, 0.1gr/dscf  
Authority for Requirement: 567 IAC 23.3(2)"a", DNR Construction Permit 15-A-503

Pollutant: PM<sub>10</sub>  
Emission Limit(s): 0.15 lb/hr  
Authority for Requirement: DNR Construction Permit 15-A-503

Pollutant: Opacity  
Emission Limit(s): 40%<sup>1</sup>  
Authority for Requirement: 23.3(2)"d", DNR Construction Permit 15-A-503

<sup>1</sup> - An exceedance of the indicator opacity of "no visible emissions" will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limit(s): 500 ppm  
Authority for Requirement: 23.3(3)"e", DNR Construction Permit 15-A-503

**Operational Limits & Requirements**

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

**Operating Limits**

Operating limits for this emission unit shall be:

- A. The emissions unit shall be fired by natural gas only. Prior to burning any other fuel in this unit, the permittee shall apply for, and obtain, a new construction permit from the Iowa DNR.

**Reporting 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 DNR. Records shall be legible and maintained in an orderly manner.*

- A. The permittee shall maintain a records of the type of fuel burned in the emissions unit.

Authority for Requirement: DNR Construction Permit 15-A-503

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 37

Stack Opening, (inches, dia.): 20

Exhaust Flow Rate (scfm): 3000

Exhaust Temperature (°F): 110

Discharge Style: Vertical, unobstructed

Authority for Requirement: DNR Construction Permit 15-A-503

The temperature and flowrate 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 characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

Authority for Requirement: 567 IAC 22.108(15)

**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: EP WH3**

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Emission Unit vented through this Emission Point: EU WH3  
Emission Unit Description: Direct Fired Hot Water Heater #3  
Raw Material/Fuel: natural gas  
Rated Capacity: 15 MMBtu/ hr

**Applicable Requirements**

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

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

Pollutant: Particulate Matter (PM) - State  
Emission Limit(s): 0.15 lb/hr, 0.1gr/dscf  
Authority for Requirement:23.3(2)"a", DNR Construction Permit 15-A-504

Pollutant: PM<sub>10</sub>  
Emission Limit(s): 0.15 lb/hr  
Authority for Requirement: DNR Construction Permit 15-A-504

Pollutant: Opacity  
Emission Limit(s): 40%<sup>1</sup>  
Authority for Requirement:23.3(2)"d", DNR Construction Permit 15-A-504

<sup>1</sup> - An exceedance of the indicator opacity of "no visible emissions" will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limit(s): 500 ppm  
Authority for Requirement:23.3(3)"e", DNR Construction Permit 15-A-504

**Operational Limits & Requirements**

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

Operating limits for this emission unit shall be:

- A. The emissions unit (EU WH3) shall be fired by natural gas only. Prior to burning any other fuel in this unit, the permittee shall apply for, and obtain, a new construction permit from the Iowa DNR.

**Reporting 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 DNR. Records shall be legible and maintained in an orderly manner.*

- A. The permittee shall maintain a records of the type of fuel burned in the emissions unit (EU WH3)

Authority for Requirement: DNR Construction Permit 15-A-504

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 39

Stack Opening, (inches, dia.): 20

Exhaust Flow Rate (scfm): 3000

Exhaust Temperature (°F): 110

Discharge Style: Verticle, unobstructed

Authority for Requirement: DNR Construction Permit 15-A-504

The temperature and flowrate 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 characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.*

**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: EP B4

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Emission Unit vented through this Emission Point: EU B4

Emission Unit Description: Miura Boiler #4

Raw Material/Fuel: Natural Gas

Rated Capacity: 11.54 MMBtu/ hr

### **Applicable Requirements**

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

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

Pollutant: Particulate Matter (PM) - State

Emission Limit(s): 0.11 lb/hr, 0.6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b", DNR Construction Permit 18-A-416

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.11 lb/hr

Authority for Requirement: DNR Construction Permit 18-A-416

Pollutant: Opacity

Emission Limit(s): 40%<sup>1</sup>

Authority for Requirement: 567 IAC 23.3(2)"d", DNR Construction Permit 18-A-416

<sup>1</sup> An exceedance of the indicator opacity of "no visible emissions" will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500ppm

Authority for Requirement: 567 IAC 23.3(3)"e", DNR Construction Permit 18-A-416

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)

Emission Limit(s): 1.50lb/hr

Authority for Requirement: DNR Construction Permit 18-A-416

Pollutant: Carbon Monoxide

Emission Limit(s): 1.20 lb/hr

Authority for Requirement: DNR Construction Permit 18-A-416

### **Operational Limits & Requirements**

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

- A. The boiler (EU B4) shall be fired by natural gas only. Prior to burning any other fuel in this boiler, the owner or operator shall apply for, and obtain, a new construction permit from the Iowa DNR.

### **Reporting and Recordkeeping Requirements**

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- A. In accordance with §60.48c(g)(1), the owner or operator shall record and maintain records of the amount of each fuel combusted in the boiler (EU B4) during each operating day. Documentation may be in the form of fuel bills or meter readings or other records that adequately document fuel usage. Alternatively, in accordance with §60.48c(g)(2), the facility may record and maintain records monthly on the amount of each fuel combusted in the boiler (EU B4).
  - i. The owner or operator shall install a gas meter on the boiler (EU B4) by no later than 120 days from the issuance date of this permit.

Authority for Requirement: DNR Construction Permit 15-A-504  
567 IAC 23.1(2)"III"  
40 CFR 60 Subpart Dc

### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 22

Stack Opening, (inches, dia.): 26

Exhaust Flow Rate (scfm): 2567

Exhaust Temperature (°F): 194

Discharge Style: Vertical, unobstructed

Authority for Requirement: DNR Construction Permit 18-A-416

The temperature and flowrate 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 characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.*

**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 Points: Steam Heated Hotdog Smokehouses

Emission Point	Emission Unit	Description	Raw Material/ Fuel	Rated Capacity
EP HD 1	EU HD 1	Hotdog Steam Heated Smokehouse 1	Steam & Sawdust	26 lbs/hr woodchips/ sawdust
EP HD 2	EU HD 2	Hotdog Steam Heated Smokehouse 2	Steam & Sawdust	26 lbs/hr woodchips/ sawdust
EP HD 3	EU HD 3	Hotdog Steam Heated Smokehouse 3	Steam & Sawdust	26 lbs/hr woodchips/ sawdust
EP HD 4	EU HD 4	Hotdog Steam Heated Smokehouse 4	Steam & Sawdust	26 lbs/hr woodchips/ sawdust
EP HD 5	EU HD 5	Hotdog Steam Heated Smokehouse 5	Steam & Sawdust	26 lbs/hr woodchips/ sawdust
EP HD 6	EU HD 6	Hotdog Steam Heated Smokehouse 6	Steam & Sawdust	26 lbs/ hr woodchips/ sawdust
EP HD 7	EU HD 7	Hotdog Steam Heated Smokehouse 7	Steam & Sawdust	26 lbs/ hr woodchips/ sawdust
EP HD 8	EU HD 8	Steam Smokehouse Vent	Woodchips/ sawdust	26 lbs/ hr woodchips/ sawdust

### Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%<sup>1</sup>

Authority for Requirements: DNR Construction Permits 08-A-089-S2, 08-A-090-S2, 08-A-091-S2, 08-A-092-S2, 08-A-093-S2, 08-A-094-S2, 08-A-095-S2 and 16-A-433  
567 IAC 23.3(2)"d"

<sup>1</sup> An exceedance of the indicator opacity of 20% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter 10 (PM<sub>10</sub>)

Emission Limit(s): 0.93 lb/hr

Authority for Requirements: DNR Construction Permits 08-A-089-S2, 08-A-090-S2, 08-A-091-S2, 08-A-092-S2, 08-A-093-S2, 08-A-094-S2, 08-A-095-S2 and 16-A-433



Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.2 gr/dscf

Authority for Requirements: DNR Construction Permits 08-A-089-S2, 08-A-090-S2, 08-A-091-S2, 08-A-092-S2, 08-A-093-S2, 08-A-094-S2, 08-A-095-S2 and 16-A-433  
567 IAC 23.4(9)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppmv

Authority for Requirements: DNR Construction Permits 08-A-089-S2, 08-A-090-S2, 08-A-091-S2, 08-A-092-S2, 08-A-093-S2, 08-A-094-S2, 08-A-095-S2 and 16-A-433  
567 IAC 23.3(3)"e"

### **Operational Limits & Requirements**

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

### **Operating Limits**

Operating limits for each emission unit shall be:

- A. The amount of sawdust and wood chips burned in the smoke generator for each Steam Smokehouse EU HD1, EU HD2, EU HD3, EU HD4, EU HD5, EU HD6, EU HD7 and EU HD8 is limited to 13.3 pounds per hour, based on the hourly average of the amount of sawdust and wood chips burned in a day. A day is a twenty-four hour period that starts at 7 AM and ends at 7 AM.

### **Reporting 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 DNR. Records shall be legible and maintained in an orderly manner.*

- A. The permittee shall maintain the following daily records:
  - i. the total amount of sawdust and wood chips burned in the smoke generator for each Steam Smokehouse (EU HD1, EU HD2, EU HD3, EU HD4, EU HD5, EU HD6, EU HD7 and EU HD8) in pounds;
  - ii. the number of hours that each Steam Smokehouse (EU HD1, EU HD2, EU HD3, EU HD4, EU HD5, EU HD6, EU HD7 and EU HD8) operated; and
  - iii. the average amount of sawdust and wood chips burned in the smoke generator for each Steam Smokehouse (EU HD1, EU HD2, EU HD3, EU HD4, EU HD5, EU HD6, EU HD7 and EU HD8) in pounds per hour.

Authority for Requirements: DNR Construction Permits 08-A-089-S2, 08-A-090-S2, 08-A-091-S2, 08-A-092-S2, 08-A-093-S2, 08-A-094-S2, 08-A-095-S2 and 16-A-433

**Emission Point Characteristics**

*The emission points shall conform to the specifications listed below.*

<b>Emission Point</b>	<b>Stack Height (ft, from roof)</b>	<b>Stack Opening (inches, dia.)</b>	<b>Exhaust Flow Rate (scfm)</b>	<b>Exhaust Temperature (°F)</b>	<b>Discharge Style</b>	<b>Authority for Requirement</b>
EP HD 1	17.4	18	1645	101	Vertical, unobstructed	08-A-089-S2
EP HD 2	17.4	18	1649	102	Vertical, unobstructed	08-A-090-S2
EP HD 3	17.4	18	1631	112	Vertical, unobstructed	08-A-091-S2
EP HD 4	17.4	18	1633	112	Vertical, unobstructed	08-A-092-S2
EP HD 5	17.4	18	1638	104	Vertical, unobstructed	09-A-093-S2
EP HD 6	17.4	18	1640	102	Vertical, unobstructed	08-A-094-S2
EP HD 7	17.4	18	1645	109	Vertical, unobstructed	08-A-095-S2
EP HD 8	19	18	2800	145	Vertical, unobstructed	16-A-433

The temperature and flowrate 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 characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.*

The facility shall check the opacity of each emission point monthly during a period when the emission unit on these emission points 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. The facility shall use EPA Method 9 with a certified smoke reader for the monitoring method.

If an opacity > (40%) 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 month have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Authority for Requirement: 567 IAC 22.108(3)

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

## Emission Points: Natural Gas Heated Bacon Smokehouses

Emission Point	Emission Unit	Description	Control Equipment	Raw Material/ Fuel	Rated Capacity
EP BAC 1	EU BAC 1	Alkar Natural Gas Heated Smokehouse 1	Exhaust Damper CE BAC 1	Natural gas/ sawdust	26 lbs/hr of woodchips/sawdust, 1.65 MMBtu/hr smoke generator, liquid smoke 3.5 gallons/ hr
EP BAC 2	EU BAC 2	Alkar Natural Gas Heated Smokehouse 2	Exhaust Damper CE BAC 2	Natural gas/ sawdust	26 lbs/hr of woodchips/sawdust, 1.65 MMBtu/hr smoke generator, 3.5 gallons per hour liquid smoke
EP BAC 3	EU BAC 3	Bacon Smokehouse 3	Exhaust Damper CE BAC 3	Natural Gas/ woodchips/ sawdust	21 lbs/hr of woodchips/sawdust, 1.65 MMBtu/hr smoke generator
	EU BAC 3A				
EP BAC 4	EU BAC 4	Alkar Natural Gas Heated Smokehouse 4	Exhaust Damper CE BAC 4	Natural Gas/ sawdust	26 lbs/hr of woodchips/sawdust, 1.65 MMBtu/hr smoke generator, 3.5 gallons per hour liquid smoke

### Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%<sup>1</sup>

Authority for Requirements: DNR Construction Permits 08-A-096-S3, 08-A-097-S3, 08-A-098-S4, 08-A-099-S3  
567 IAC 23.3(2) "d"

<sup>1</sup> An exceedance of the indicator opacity of 25% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter 10 (PM<sub>10</sub>)

Emission Limit(s): 0.15 lb/hr

Authority for Requirements: DNR Construction Permits 08-A-096-S3, 08-A-097-S3, 08-A-098-S4, 08-A-099-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.3 lb/hr, 0.2 gr/scf

Authority for Requirements: DNR Construction Permit 08-A-096-S3, 08-A-097-S3, 08-A-098-S4, 08-A-099-S3  
567 IAC 23.4(9)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppmv

Authority for Requirements: DNR Construction Permit 08-A-096-S3, 08-A-097-S3, 08-A-098-S4, 08-A-099-S3  
567 IAC 23.3(3)"e"

### **Operational Limits and Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

#### **A. Smoke Generation:**

- i. The owner or operator shall use no more than 11.5 pounds per hour of sawdust and/or wood chips to generate smoke for each Bacon Smokehouse (EU BAC1, EU BAC2, EU BAC3 and EU BAC4), based on the hourly average of the amount of sawdust and/or wood chips burned in a day. A day is a twenty-four hour period that starts at 7 AM and ends at 7 AM.
- ii. The owner or operator shall record, on a daily basis, the total amount of sawdust and/or wood chips burned in the smoke generator for each Bacon Smokehouse (EU BAC1, EU BAC 2, EU BAC3 and EU BAC4) in units of pounds.
- iii. The owner or operator shall record, on a daily basis, the number of hours that each Bacon Smokehouse (EU BAC1, EU BAC2, EU BAC3 and EU BAC4) is operated.
- iv. The owner or operator shall record, on a daily basis, the calculated average amount of sawdust and/or wood chips burned in the smoke generator for each Bacon Smokehouse (EU BAC1, EU BAC2, EU BAC3 and EU BAC4) in units of pounds per hour.

#### **B. Liquid Smoke Use:**

- i. The owner or operator shall use no more than 0.75 gallons of liquid smoke material per hour in each Bacon Smokehouse (EU BAC1, EU BAC2, and EU BAC 4), based on the average hourly volume of liquid smoke material sprayed in a day. A day is a twenty-four hour period that starts at 7 AM and ends at 7 AM.
- ii. The owner or operator shall record, on a daily basis, the total volume of liquid smoke material sprayed in each Bacon Smokehouse (EU BAC1, EU BAC2, and EU BAC4) in units of gallons.
- iii. The owner or operator shall record, on a daily basis, the number of hours that each

- Bacon Smokehouse (EU BAC1, EU BAC2, EU BAC3 and EU BAC4) is operated.
- iv. The owner or operator shall record, on a daily basis, the calculated average volume of liquid smoke material is sprayed in each Bacon Smokehouse (EU BAC1, EU BAC 2, EU BAC3 and EU BAC 4) in units of gallons per hour.

C. Exhaust Dampers:

- i. The owner or operator shall keep the damper closed in the exhaust stack while the Bacon Smokehouses (EU BAC1, EU BAC2, EU BAC3 and EU BAC4) are in operation.
- ii. The owner or operator shall maintain records that show the exhaust dampers were closed while each Bacon Smokehouse (EU BAC1, EU BAC2, EU BAC3 and EU BAC4 ) was in operation.

Authority for Requirement: DNR Construction Permits 08-A-096-S3, 08-A-097-S3, 08-A-098-S4, 08-A-099-S3

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

<b>Emission Point</b>	<b>Stack Height (ft, from the ground)</b>	<b>Stack Opening (inches, dia.)</b>	<b>Exhaust Flow Rate (scfm)</b>	<b>Exhaust Temperature (°F)</b>	<b>Discharge Style</b>	<b>Authority for Requirement</b>
EP BAC 1	22.4	18	1600	120	Vertical, unobstructed	08-A-096-S3
EP BAC 2	22.4	18	1600	120	Vertical, unobstructed	08-A-097-S3
EP BAC 3	20	14	1600	Ambient	Vertical, unobstructed	08-A-098-S4
EP BAC 4	21.64	14	1600	120	Vertical, unobstructed	08-A-099-S3

The temperature and flowrate 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 characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

**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 Points: Microwave Cooking Line

Emission Point	Emission Unit	Description	Control Equipment	Raw Material/ Fuel	Rated Capacity
EP MW 1	EU MW 1	Ferritt Microwave Cooking Line #1	CE-MW1 Quickdraft Venturi/ mesh pad demister	Bacon	3,200 lbs/hr
EP MW 2	EU MW 2	Ferritt Microwave Cooking Line #2	Quickdraft Venturi/ mesh pad demister	Bacon	3,200 lbs/hr
EP MW 3	EU MW 3	Ferritt Microwave Cooking Line #3	Quickdraft Venturi/ mesh pad demister	Bacon	3,200 lbs/hr
EP MW 4	EU MW 4	Ferritt Microwave Cooking Line #4	Quickdraft Venturi/ mesh pad demister	Bacon	3,200 lbs/hr
EP MW 5	EU MW 5	Ferritt Microwave Cooking Line #5	Quickdraft Venturi/ mesh pad demister	Bacon	3,200 lbs/hr
EP MW 6	EU MW 6	Ferritt Microwave Cooking Line #6	Quickdraft Venturi/ mesh pad demister	Bacon	3,200 lbs/hr
EP MW 7	EU MW 7	Ferritt Microwave Cooking Line #7	Quickdraft Venturi/ mesh pad demister	Bacon	3,200 lbs/hr

### Applicable Requirements

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

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

Pollutant	Emission Point(s)	Emission Limit
Opacity	EP MW 1, EP MW 2, EP MW 3, EP MW 4, EP MW 5, EP MW 6, EP MW 7	40% <sup>1</sup>

Authority for Requirement: DNR Construction Permits 08-A-100-S2, 08-A-101-S2, 08-A-102-S3, 08-A-103-S2, 08-A-104-S3, 08-A-105-S3, 08-A-106-S3  
567 IAC 23.3(2) "d"

<sup>1</sup> An exceedance of the indicator opacity of 10% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing)

Pollutant	Emission Point(s)	Emission Limit
Particulate Matter (PM <sub>10</sub> )	EP MW 1, EP MW 2, EP MW 3, EP MW 4	0.48 lb/hr
	EP MW 5	0.80 lb/hr
	EP MW 6, EP MW 7	0.53 lb/hr

Authority for Requirement: DNR Construction Permits 08-A-100-S2, 08-A-101-S2, 08-A-102-S3, 08-A-103-S2, 08-A-104-S3, 08-A-105-S3, 08-A-106-S3

Pollutant	Emission Point(s)	Emission Limit	Emission Limit
Particulate Matter (PM)	EP MW 1	0.50 lb/hr	0.1 gr/dscf
	EP MW 2, EP MW 3	0.48 lb/hr	
	EP MW 4	0.49 lb/hr	
	EP MW 5	0.99 lb/hr	
	EP MW 6, EP MW 7	0.66 lb/hr	

Authority for Requirement: DNR Construction Permits 08-A-100-S2, 08-A-101-S2, 08-A-102-S3, 08-A-103-S2, 08-A-104-S3, 08-A-105-S3, 08-A-106-S3  
567 IAC 23.3(2) "a"

Pollutant	Emission Points(s)	Emission Limit <sup>2</sup>
Volatile Organic Compounds (VOC)	EP MW 1, EP MW 2, EP MW 3, EP MW 4, EP MW 5, EP MW 6 and EP MW 7	21.6 ton/ yr <sup>2</sup>

Authority for Requirement: DNR Construction Permits 08-A-100-S2, 08-A-101-S2, 08-A-102-S3, 08-A-103-S2, 08-A-104-S3, 08-A-105-S3, 08-A-106-S3

<sup>2</sup> VOC limit for EU MW1, MW2, MW3, MW4, MW5, MW6, and MW7 is 21.6 tons per rolling 12-month period. Limit established to limit the potential to emit for the facility. This limit is based on an emission limit of 0.40 lb VOC/1000 lbs of meat cooked in the microwave ovens and the annual production limit. The basis of the emission limit is the VOC stack testing performed at the facility in September and October of 2012.

### **Operational Limits & Requirements**

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

#### **Operating Limits**

Operating limits for each emission unit shall be:

- A. Each emissions unit is limited to operating a maximum of 19 hours per day from 6:00 AM to 1:00 AM.
- B. The control equipment shall be operated and maintained in accordance with the manufacturer's instructions.



- C. The amount of raw bacon cooked in EU MW1, MW2, MW3, MW4, MW5, MW6, and MW7 (microwave lines) shall not exceed 108,000,000 pounds in any rolling 12-month period.

**Reporting 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 DNR. Records shall be legible and maintained in an orderly manner.*

- A. The permittee shall maintain records on all maintenance performed on the control equipment.
- B. The permittee shall maintain a daily record on the number of hours that each emissions unit operated. This shall include the initial start up time and the final shutdown time.
- C. The permittee shall maintain the following monthly records:
  - i. the total amount of raw bacon cooked in the microwave cooking lines (EU MW1, MW2, MW3, MW4, MW5, MW6, and MW7) in pounds; and
  - ii. the rolling 12-month total amount of raw bacon cooked in the microwave cooking lines (EU MW1, MW2, MW3, MW4, MW5, MW6, and MW7) in pounds.

Authority for Requirement: DNR Construction Permits 08-A-100-S2, 08-A-101-S2, 08-A-102-S3, 08-A-103-S2, 08-A-104-S3, 08-A-105-S3, 08-A-106-S3

**Emission Point Characteristics**

*The emission points shall conform to the specifications listed below.*

<b>Emission Point</b>	<b>Stack Height (ft, from the ground)</b>	<b>Stack Opening (inches, dia.)</b>	<b>Exhaust Flow Rate (scfm)</b>	<b>Exhaust Temperature (°F)</b>	<b>Discharge Style</b>
EP MW 1	27.6	20	5,888	80	Vertical, unobstructed
EP MW 2	34	26	5,608	107	Vertical, unobstructed
EP MW 3	34	26	9,390	87	Vertical, unobstructed
EP MW 4	33.9	18	5,709	97	Vertical, unobstructed
EP MW 5	21.0	24	12,557	92	Vertical, unobstructed
EP MW 6	20.4	24	11,067	81	Vertical, unobstructed
EP MW 7	20.6	24	10,881	81	Vertical, unobstructed

Authority for Requirements: 08-A-100-S2, 08-A-101-S2, 08-A-102-S3, 08-A-103-S2, 08-A-104-S3, 08-A-105-S3, 08-A-106-S3

The temperature and flowrate 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 characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

**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 Numbers: EP FOF 1, EP FOF 2, & EP FOF 5**

Associated Equipment

Emissions Control Equipment ID Number: CE FOF 1, CE FOF 2, CE FOF 5  
 Emissions Control Equipment Description: Quickdraft Venturi/mesh pad demisters

Emission Unit vented through this Emission Point: EU FOF 1  
 Emission Unit Description: Fair Oaks Farms Cooking Line #1  
 Raw Material/Fuel: meat, natural gas  
 Rated Capacity: 4500 lbs/hr of raw meat, 4.0 MMBtu/hr total heat input

**Applicable Requirements**

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

*The emissions from these emission points shall not exceed the levels specified below.*

EP	Opacity <sup>(1)</sup>	PM <sub>10</sub>	Particulate Matter	SO <sub>2</sub>	VOC	Authority for Requirement
FOF 1	40%	0.69 lb/hr	0.69 lb/hr, 0.1 gr/dscf	500 ppmv	37.2 tons/yr	567 IAC 23.3(2)"d", 23.3(2)"a", 23.3(3)"e"
FOF 2	40%	0.46 lb/hr	0.46 lb/hr, 0.1 gr/dscf	500 ppmv		
FOF 5	40%	0.79 lb/hr	0.79 lb/hr, 0.1 gr/dscf	500 ppmv		

Authority for Requirements: DNR Construction Permit 08-A-109-S4, 08-A-107-S4, & 12-A-006-S3

<sup>1</sup> An exceedance of the indicator opacity of 10% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing)

**Operating Requirements and Associated Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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 DNR. Records shall be legible and maintained in an orderly manner.*

- A. The owner or operator is limited to operating each emission unit (EU FOF1) a maximum of 19 hours per day from 6:00 AM to 1:00 AM.
- B. The owner or operator shall be operate and maintain the control equipment in accordance with the manufacturer’s instructions.
- C. The owner or operator shall not exceed 24,000,000 pounds of raw meat cooked in any rolling 12-month period in EU FOF1 (Fair Oaks Farms Cooking Line #1).

- F. The owner or operator shall maintain a daily record on the number of hours each emission unit is operated. This shall include the initial startup time and the final shutdown time.
- G. The owner or operator shall maintain the following monthly records:
  - i. the total amount of raw meat cooked in the Fair Oaks Farms Cooking Line #1 (EU FOF1) in pounds;
  - ii. the rolling 12-month total amount of raw meat cooked in the Fair Oak Farms Cooking Line #1 (EU FOF1) in pounds;

Authority for Requirements: DNR Construction Permit 08-A-109-S4, 08-A-107-S4, & 12-A-006-S3

**Emission Point Characteristics**

*These emission points shall conform to the specifications listed below.*

	<b>FOF 1</b>	<b>FOF 2</b>	<b>FOF 5</b>
<b>Stack Height, (ft, from the ground)</b>	17.35	17.35	34
<b>Stack Opening, (inches, dia.)</b>	26	26	26.4
<b>Exhaust Flow Rate (scfm)</b>	10,100	6,000	11,500
<b>Exhaust Temperature (°F)</b>	125	93	112
<b>Discharge Style</b>	Vertical Unobstructed	Vertical Unobstructed	Vertical Unobstructed
<b>Authority for Requirement</b>	08-A-109-S4	08-A-107-S4	12-A-006-S3

The temperature and flowrate 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 characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

**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 Numbers: EP FOF 3, EP FOF 4, EP FOF 6

### Associated Equipment

Emissions Control Equipment ID Numbers: CE FOF 3, CE FOF 4, CE FOF 4

Emissions Control Equipment Description: Quickdraft Venturi/mesh pad demisters

Emission Unit vented through this Emission Point: EU FOF 2

Emission Unit Description: Fair Oaks Farms Cooking Line #2

Raw Material/Fuel: meat, natural gas

Rated Capacity: 4500 lbs/hr of raw meat, 4.0 MMBtu/hr total heat input

### Applicable Requirements

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

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

EP	Opacity <sup>(1)</sup>	PM <sub>10</sub>	Particulate Matter	SO <sub>2</sub>	VOC <sup>(2)</sup>	Authority for Requirement
FOF 3	40%	0.69 lb/hr	0.69 lb/hr, 0.1 gr/dscf	500 ppmv	72.0 ton/yr <sup>2</sup>	567 IAC 23.3(2) "d",
FOF 4	40%	0.46 lb/hr	0.46 lb/hr, 0.1 gr/dscf	500 ppmv	72.0 ton/yr <sup>2</sup>	567 IAC 23.3(2) "a",
FOF 6	40%	0.79 lb/hr	0.79 lb/hr, 0.1 gr/dscf	500 ppmv	72.0 ton/yr <sup>2</sup>	567 IAC 23.3(3) "e"

Authority for Requirements: DNR Construction Permits 08-A-110-S4, 08-A-108-S4, 12-A-007-S3

<sup>1</sup> An exceedance of the indicator opacity of 10% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing)

<sup>2</sup> VOC limit for EU FOF2 (Fairs Oaks Farm Cooking Line #2).

#### Operating Requirements and Associated Recordkeeping

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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 DNR. Records shall be legible and maintained in an orderly manner.*

- A. The owner or operator is limited to operating these emission units (EU FOF1 and EU FOF2) a maximum of 19 hours per day from 6:00 AM to 1:00 AM.
- B. The owner or operator shall be operate and maintain the control equipment in accordance with the manufacturer's instructions.

- C. The owner or operator shall not exceed 24,000,000 pounds of raw meat cooked in any rolling 12-month period in EU FOF1 (Fair Oaks Farms Cooking Line #1).
- D. The owner or operator shall not exceed 24,000,000 pounds of raw meat cooked in any rolling 12-month period in EU FOF2 (Fair Oaks Farms Cooking Line #2).
- E. The owner or operator shall maintain records on all maintenance performed on the control equipment.
- F. The owner or operator shall maintain a daily record on the number of hours each emission unit is operated. This shall include the initial startup time and the final shutdown time.
- G. The owner or operator shall maintain the following monthly records:
  - i. the total amount of raw meat cooked in the Fair Oaks Farms Cooking Line #1 (EU FOF1) in pounds;
  - ii. the rolling 12-month total amount of raw meat cooked in the Fair Oak Farms Cooking Line #1 (EU FOF1) in pounds;
  - iii. the total amount of raw meat cooked in the Fair Oaks Farms Cooking Line #2 (EU FOF2) in pounds; and
  - iv. the rolling 12-month total amount of raw meat cooked in the Fair Oak Farms Cooking Line #2 (EU FOF2) in pounds.

Authority for Requirement: DNR Construction Permit 08-A-110-S4

**Emission Point Characteristics**

*The emission points shall conform to the specifications listed below.*

<b>Emission Point</b>	<b>FOF 3</b>	<b>FOF 4</b>	<b>FOF 6</b>
<b>Stack Height (ft, from the ground)</b>	17.35	17.35	34.0
<b>Stack Opening (inches, dia.)</b>	26	26	22
<b>Exhaust Flow Rate (scfm)</b>	9,200	10,900	7,700
<b>Exhaust Temperature (°F)</b>	111	146	109
<b>Discharge Style</b>	Vertical, unobstructed	Vertical, unobstructed	Vertical, unobstructed
<b>Authority for Requirement</b>	DNR Construction Permit 08-A-110-S4	DNR Construction Permit 08-A-108-S4	DNR Construction Permit 12-A-007-S3

The temperature and flowrate 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 characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

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

*Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.*

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

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Numbers: EP IR 6, EP IR 7, EP IR 8 and EP IR 9**

Associated Equipment

Emissions Control Equipment ID Numbers: CE IR 6, CE IR 7, CE IR 8 and CE IR 9

Emissions Control Equipment Description: Venturi/ mesh pad demisters

Emission Unit vented through this Emission Point: EU IR

Emission Unit Description: IR Cooking Line and IR Lamps

Raw Material/Fuel: natural gas

Rated Capacity: 4,500 lb/ hr raw meat, 4.43 MMBtu/ hr natural gas

**Applicable Requirements**

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

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

<b>Emission Point</b>	<b>Opacity<sup>1</sup></b>	<b>PM</b>	<b>SO<sub>2</sub></b>	<b>VOC</b>	<b>Authority for Requirement</b>
<b>IR 6</b>	40%	0.41 lb/hr, 0.1 gr/dscf	500 ppm	37.3	567 IAC 23.3(2)"a", 567 IAC 23.3(2)"d", 567 IAC 23.3(3)"e"
<b>IR 7</b>	40%	0.36 lb/hr, 0.1 gr/dscf	500 ppm		
<b>IR 8</b>	40%	0.40 lb/hr, 0.1 gr/dscf	500 ppm		
<b>IR 9</b>	40%	0.69 lb/hr, 0.1 gr/dscf	500 ppm		

Authority for Requirements: DNR Construction Permits 18-A-090, 18-A-091, 18-A-092 and 18-A-093

<sup>1</sup> An exceedance of the indicator opacity of "no visible emissions" will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing)



### **Operating Requirements and Associated Recordkeeping**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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 DNR. Records shall be legible and maintained in an orderly manner.*

#### Equipment Operation and Throughput Limit Requirements

- A. The IR Cooking Line (EU-IR) is limited to operating a maximum of 19 hours per day from 6:00 AM to 1:00 AM.
  - i. The owner or operator shall maintain a daily record on the number of hours that the IR Cooking Line (EU-IR) operated. This shall include the initial startup time and the final shutdown time.
- B. The total amount of raw meat processed by the IR Cooking Line (EU-IR) shall not exceed 24 million pounds per rolling twelve-month period.
  - ii. The owner or operator shall record the total amount of raw meat, in pounds, processed by the IR Cooking Line (EU-IR) on a monthly basis.
  - iii. The owner or operator shall calculate and record the total amount of raw meat, in pounds, processed by the IR Cooking Line (EU-IR) on a rolling 12-month basis.

#### Control Equipment Requirements

- C. The owner or operator shall inspect and maintain the control equipment described in this permit according to manufacturer's specifications and instructions.
  - i. The owner or operator shall keep a log of all maintenance and inspection activities performed on the control equipment. At a minimum, this log shall include:
    - 1.The date that any inspection and/or maintenance was performed on the control equipment;
    - 2.Any issues identified during the inspection;
    - 3.Any issues addressed during the maintenance activities and the date each issue was resolved; and
    - 4.Identification of the staff member performing the maintenance inspection.

Authority for Requirement: DNR Construction Permits 18-A-090, 18-A-091, 18-A-092 and 18-A-092

**Emission Point Characteristics**

*The emission points shall conform to the specifications listed below.*

<b>Emission Point</b>	<b>IR6</b>	<b>IR7</b>	<b>IR8</b>	<b>IR9</b>
<b>Stack Height, (ft, from the ground)</b>	39.5	39.9	38.4	72.9
<b>Stack Opening (inches, dia.)</b>	24	24	24	22
<b>Exhaust Flow Rate (scfm)</b>	7,293	7,631	7,853	10,000
<b>Exhaust Temperature (°F)</b>	103	104	85	118
<b>Discharge Style</b>	Vertical, unobstructed	Vertical, unobstructed	Vertical, unobstructed	Vertical, unobstructed
<b>Authority for Requirement</b>	DNR Construction Permit 18-A-090	DNR Construction Permit 18-A-091	DNR Construction Permit 18-0A-092	DNR Construction Permit 18-A-093

The temperature and flowrate 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 characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.*

**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: EP KBD 2**

### Associated Equipment

Emissions Control Equipment ID Number: CE KBD 2

Emissions Control Equipment Description: Quickdraft Venturi/mesh pad demister

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Emission Unit vented through this Emission Point: EU KBD 1

Emission Unit Description: KBD Cooking Line #1 North

Raw Material/Fuel: meat, natural gas

Rated Capacity: 3800 lbs/hr of raw meat, 2.5MMBtu/hr total heat input

### **Applicable Requirements**

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

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

Pollutant: Opacity

Emission Limit(s): 40%<sup>1</sup>

Authority for Requirement: DNR Construction Permit 08-A-111-S4  
567 IAC 23.3(2) "d"

<sup>1</sup> An exceedance of the indicator opacity of 10% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing)

Pollutant: Particulate Matter 10 (PM<sub>10</sub>)

Emission Limit(s): 0.35 lb/hr

Authority for Requirement: DNR Construction Permit 08-A-111-S4

Pollutant: Particulate Matter- State (PM)

Emission Limit(s): 0.35 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 08-A-111-S4  
567 IAC 23.3(2) "a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 08-A-111-S4  
567 IAC 23.3(3)"e"

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 4.22 ton/yr

Authority for Requirement: DNR Construction Permit 08-A-111-S4

### **Operational Limits & Requirements**

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

#### **Operating Limits**

Operating limits for this emission unit shall be:

- A. This emissions unit is limited to operating a maximum of 19 hours per day from 6:00 AM to 1:00 AM.
- B. The control equipment shall be operated and maintained in accordance with the manufacturer's instructions.
- C. The amount of raw meat cooked in EU KBD1 (KBD Cooking Line #1) shall not exceed 24,100,000 pounds in any rolling 12-month period.

#### **Reporting 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 DNR. Records shall be legible and maintained in an orderly manner.*

- A. The permittee shall maintain records on all maintenance performed on the control equipment.
- B. The permittee shall maintain a daily record on the number of hours that this emissions unit operated. This shall include the initial start up time and the final shutdown time.
- C. The permittee shall maintain the following monthly records:
  - i. the total amount of raw meat cooked in the KBD Cooking Line #1 (EU KBD1) in pounds; and
  - ii. the rolling 12-month total amount of raw meat cooked in the KBD Cooking Line #1 (EU KBD1) in pounds.

Authority for Requirement: DNR Construction Permit 08-A-111-S4

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the roof): 39.3  
Stack Opening, (inches, dia.): 24  
Exhaust Flow Rate (scfm): 8061  
Exhaust Temperature (°F): 141  
Discharge Style: Vertical, unobstructed  
Authority for Requirement: DNR Construction Permit 08-A-111-S4

The temperature and flowrate 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 characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.*

- 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: EP G3**

### Associated Equipment

Emission Unit vented through this Emission Point: EU G3  
Emission Unit Description: Caterpillar Diesel IC engine, model C27 TA  
Raw Material/Fuel: diesel  
Rated Capacity: 650 kW

### **Applicable Requirements**

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

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

Pollutant: Opacity

Emission Limit(s): 40%<sup>1</sup>

Authority for Requirement: DNR Construction Permit 10-A-112  
567 IAC 23.3(2) "d"

<sup>1</sup> An exceedance of the indicator opacity of 10% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing)

Pollutant: Particulate Matter 10 (PM<sub>10</sub>)

Emission Limit(s): 1.01 lb/hr, 0.25 ton/yr

Authority for Requirement: DNR Construction Permit 10-A-112

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.57 lb/hr, 0.1 gr/dscf<sup>2</sup>, 0.2 gr/kW-hr<sup>3</sup>

Authority for Requirement: DNR Construction Permit 10-A-112  
<sup>2</sup> 567 IAC 23.3(2) "a"  
<sup>3</sup> 40 CFR Part 60, Subpart III  
<sup>3</sup> 567 IAC 23.1(2) "yyy"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 2.5 lbs/MMBtu

Authority for Requirement: DNR Construction Permit 10-A-112  
567 IAC 23.3(3)"b"

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)

Emission Limit(s): 23.21 lb/hr; 5.8 tons/yr

Authority for Requirement: DNR Construction Permit 10-A-112

Pollutant: Non-methane hydrocarbons + Nitrogen Oxides (NMHC + NO<sub>x</sub>)

Emission Limit(s): 6.4 gr/kW-hr

Authority for Requirement: DNR Construction Permit 10-A-112  
40 CFR Part 60, Subpart III  
567 IAC 23.1(2) "yyy"

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 3.5 gr/kW-hr

Authority for Requirement: DNR Construction Permit 10-A-112  
40 CFR Part 60, Subpart III  
567 IAC 23.1(2) "yyy"

### **Operational Limits & Requirements**

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

### **Operating Limits**

Operating limits for this emission unit shall be:

- A. This engine is limited to operating a maximum of 500 hours in any rolling 12-month period. In accordance with §60.4211(e), the engine is limited to operating a maximum of 100 hours per year for maintenance checks and readiness testing.
- B. In accordance with §60.4207, the maximum sulfur content of the fuel oil shall not exceed 15 ppm (0.0015%) by weight and a minimum cetane index of 40 or a maximum aromatic content of 35% by volume.
- C. In accordance with §60.4209(a), the engine shall be equipped with a non-resettable hour meter.
- D. In accordance with §60.4211(a), the permittee shall operate this engine in accordance with the manufacturer's written instructions. The permittee may only change engine settings that are permitted by the manufacturer.

### **Reporting 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 DNR. Records shall be legible and maintained in an orderly manner.*

- A. The permittee shall maintain the following monthly records:
  - i. the total number of hours that the engine operated;
  - ii. the number of hours that the engine operated for maintenance checks and readiness testing;
  - iii. the rolling 12-month total amount of the number of hours that the engine operated; and
  - iv. the rolling 12-month total amount of the number of hours that the engine operated for maintenance checks and readiness testing.

- B. The permittee shall perform an analysis and shall maintain records on the sulfur content of each shipment of oil received. Alternatively, the permittee shall have the oil supplier provide analyses on the sulfur content of the oil received.

### **NSPS and NESHAP Applicability**

This emissions unit is subject to NSPS Subpart III – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (IAC 23.1(2)“yy”). The engine was manufactured in 2010. The engine is an emergency stationary internal combustion engine that is not a fire pump engine. In accordance with §60.4211(c), the engine must be certified by its manufacturer to comply with the emissions standards from §60.4205 (b). In accordance with §60.4206, the permittee shall operate and maintain the engine to meet the applicable emission standards according to the manufacturer’s written instructions over the entire life of the engine. No initial notification is required by this standard.

This emissions unit is of the source type regulated by the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (567 IAC 23.1(4)“cz”, 40 CFR Part 63, Subpart ZZZZ). The engine is a new RICE located at an area source of HAPs. In accordance with §63.6590 (c), the engine must comply with the requirements of Subpart ZZZZ by meeting the requirements of NSPS subpart III.

Authority for Requirement: DNR Construction Permit 10-A-112

### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 13

Stack Opening, (inches, dia.): 8

Exhaust Flow Rate (scfm): 1,842

Exhaust Temperature (°F): 960

Discharge Style: Vertical, unobstructed

Authority for Requirement: DNR Construction Permit 10-A-112

The temperature and flowrate 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 characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence 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.*

**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: EP WWL 1**

### Associated Equipment

Emission Unit vented through this Emission Point: EU WWL 1  
Emission Unit Description: Anaerobic Lagoons for wastewater treatment  
Raw Material/Fuel: wastewater  
Rated Capacity: 0.85 million gallons per day

### **Applicable Requirements**

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

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

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limit(s): 500 ppmv  
Authority for Requirement: DNR Construction Permit 12-A-205  
567 IAC 23.3(3) "e"

Pollutant: Methane (CH<sub>4</sub>)  
Emission Limit(s): 947 ton/yr  
Authority for Requirement: DNR Construction Permit 12-A-205

Pollutant: Carbon Dioxide equivalent (CO<sub>2e</sub>)  
Emission Limit(s): 19,886 ton/yr  
Authority for Requirement: DNR Construction Permit 12-A-205

#### **Operational Limits & Requirements**

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

#### **Reporting 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 DNR. Records shall be legible and maintained in an orderly manner.*

- A. The permittee shall monitor weekly the amount of wastewater sent to the anaerobic lagoons. The flow shall be measured in accordance with §98.354(d) or other methods approved by the Iowa Air Quality Bureau.
- B. The permittee shall monitor weekly the concentration of the 5-day biochemical oxygen demand (BOD5) of the wastewater entering the anaerobic lagoons. The concentration shall be measured in accordance with §98.354(b) and (c) or other methods approved by the Iowa Air Quality Bureau.

- C. The permittee shall record and maintain the following weekly records on:
- i. the amount of methane and carbon dioxide equivalent (CO<sub>2</sub>e) emitted from the anaerobic lagoons (tons); and
  - ii. the rolling 52-week total of the amount of methane and CO<sub>2</sub>e emitted from the anaerobic lagoons (tons);
- D. To determine the weekly mass emission rate of methane from the lagoons, the following equation shall be used:
- $$\text{CH}_4 = \text{Flow} \times \text{BOD}_5 \times B_o \times \text{MCF} \times 0.0005$$
- Where:
- CH<sub>4</sub> = tons of methane emitted each week
- Flow = flow of wastewater sent to the lagoons, cubic feet per week
- BOD<sub>5</sub> = average weekly 5-day biochemical oxygen demand of the wastewater sent to the lagoons, pounds per cubic feet
- B<sub>o</sub> = Maximum CH<sub>4</sub> producing potential of wastewater (lbs CH<sub>4</sub> per lb BOD<sub>5</sub>). Per §98.353, use the value of 0.6.
- MCF = CH<sub>4</sub> conversion factor, based on Table II-1 from 40 CFR Part 98, Subpart II. For a deep lagoon (depth more than 2 meters), use the value of 0.8.
- 0.0005 = conversion factor from pounds to tons
- E. To determine the weekly mass emission rate of CO<sub>2</sub>e, the permittee shall multiply the mass amount of each greenhouse gas emitted from the lagoons by its global warming potential (GWP) and then sum the resulting values. The GWP value published in 40 CFR Part 98, Subpart A, Table A-1 should be used for each greenhouse gas.
- F. The permittee shall submit an annual report to the Iowa DNR, Air Quality Bureau on methane and CO<sub>2</sub> emissions from the anaerobic lagoons. This report shall be submitted by no later than January 31 of each year. The first report shall be submitted by January 31, 2013 and shall cover lagoon operations from July 1, 2012 to December 31, 2012. The report shall include the weekly emission rate (tons/wk) and the annual summary (tons/yr).
- G. The permittee shall submit a report to the Iowa DNR, Air Quality Bureau that identifies any exceedance of the rolling 52-week emissions limitation for methane from the Emission Limits Section of this permit. The report shall be submitted no later than 30 days from the end of the week in which the exceedance occurred. The report shall include, at a minimum, what limit was exceeded, the amount of methane emissions, the date the exceedance occurred, and the steps that have been or will be taken to correct the exceedance.

Authority for Requirement: DNR Construction Permit 12-A-205

**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: EP Chill 1 – Chill 6**

Associated Equipment

Emission Unit vented through this Emission Point: EU Chill 1 – Chill 6  
Emission Unit Description: Purchased CO<sub>2</sub> used in chillers, freezers, and blenders  
Raw Material/Fuel: CO<sub>2</sub>  
Rated Capacity: NA

**Applicable Requirements**

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

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

Pollutant: Carbon Dioxide (CO<sub>2</sub>)  
Emission Limit(s): 22,500 tons/yr  
Authority for Requirement: DNR Construction Permit 12-A-204-S1  
567 IAC 23.3(3) "e"

**Operational Limits & Reporting/Record keeping Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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 DNR. Records shall be legible and maintained in an orderly manner.*

- A. This permit is for carbon dioxide (CO<sub>2</sub>) that is used at the facility for freezing and chilling of meat. The amount of purchased CO<sub>2</sub> used for these purposes shall not exceed 45,000,000 pounds per rolling 12-month period (22,500 tons/12 month period).
- B. The permittee shall maintain the following monthly records:
  - i. the amount of purchased CO<sub>2</sub> that is received at the facility (pounds or tons); and
  - ii. the rolling 12-month total amount of purchased CO<sub>2</sub> that is received at the facility (tons).

Authority for Requirement: DNR Construction Permit 12-A-204-S1

**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: G1**

### Associated Equipment

Associated Emission Unit ID Number: G1

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Emission Unit vented through this Emission Point: Emergency Diesel Generator  
Emission Unit Description: Emergency Diesel CI engine  
Raw Material/Fuel: Diesel Fuel  
Rated Capacity: 343 hp

### **Applicable Requirements**

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

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

Pollutant: Opacity  
Emission Limit(s): 40%  
Authority for Requirement: 567 IAC 23.3(2)"d"

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

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limit(s): 2.5 lb/MMBtu  
Authority for Requirement: 567 IAC 23.3(3)"b"

#### **Operational Limits & Requirements**

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

#### **NESHAP:**

The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(1)(ii) this compression ignition emergency engine, located at a major source, is an existing stationary RICE as it was constructed prior to June 12, 2006.

#### **Compliance Date**

Per 63.6595(a)(1) you must comply with the provisions of Subpart ZZZZ that are applicable by May 3, 2013.

Operation and Maintenance Requirements 40 CFR 63.6602, 63.6625, 63.6640 and Tables 2c and 6 to Subpart ZZZZ

1. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
2. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
5. Install a non-resettable hour meter if one is not already installed.
6. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Operating Limits 40 CFR 63.6640(f)

1. Any operation other than emergency operation, maintenance and testing and operation in non-emergency situations (*up to*) 50 hours per year is prohibited.
2. There is no time limit on the use of emergency stationary RICE in emergency situations.
3. You may operate your emergency stationary RICE up to 100 combined hours per calendar year for maintenance checks and readiness testing. See 40 CFR 63.6640(f)(2) for additional information and restrictions.
4. You may operate your emergency stationary RICE up to 50 hours per calendar year for non-emergency situations, but those 50 hours are counted toward the 100 hours of maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

Recordkeeping Requirements 40 CFR 63.6655

1. Keep records of the maintenance conducted on the stationary RICE.
2. Keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. Document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. See 40 CFR 63.6655(f) for additional information.

Notification and Reporting Requirements 40 CFR 63.6645, 63.6650 and Table 2c to Subpart ZZZZ

1. An initial notification is not required per 40 CFR 63.6645(a)(5).
2. A report may be required for failure to perform the work practice requirements on the schedule required in Table 2c. (See Footnote 1 of Table 2c for more information.)

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ  
567 IAC 23.1(4)"cz"

**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.

### 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, Wallace State Office Building, 502 E 9th St., Des Moines, IA 50319-0034, 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 Permitting & Standards Branch, 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 the appropriate DNR Field office. *567 IAC 22.108 (15)"e"*

#### **G5. Semi-Annual Monitoring Report**

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

#### **G6. Annual Fee**

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The emissions inventory shall be submitted annually by March 31 with forms specified by the department documenting actual emissions for the previous calendar year.
4. The fee shall be submitted annually by July 1 with forms specified by the department.
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

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

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

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

#### **G8. Duty to Provide Information**

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

#### **G9. General Maintenance and Repair Duties**

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

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

#### **G10. Recordkeeping Requirements for Compliance Monitoring**

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
  - a. The date, place and time of sampling or measurements
  - b. The date the analyses were performed.
  - c. The company or entity that performed the analyses.
  - d. The analytical techniques or methods used.
  - e. The results of such analyses; and
  - f. The operating conditions as existing at the time of sampling or measurement.
  - g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:

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

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

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

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:
  - a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
  - b. Compliance test methods specified in 567 Chapter 25; or
  - c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.
2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
  - a. Any monitoring or testing methods provided in these rules; or
  - b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

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

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

**G13. Hazardous Release**

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 725-8694 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)*

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)*

#### **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.
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)*

### **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 provided in 567 IAC 23.2. *567 IAC 23.2 except 23.2(3)"j"; 567 IAC 23.2(3)"j" - State Only*

### **G22. Acid Rain (Title IV) Emissions Allowances**

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

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

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

- a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
- b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
- c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
- d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.

2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:

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

- d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
  - e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
  - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.
3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
  4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,
  5. The permittee shall be allowed to switch from any ozone-depleting or greenhouse gas generating substances 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)

**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  
Wallace State Office Building  
502 E 9<sup>th</sup> St.  
Des Moines, IA 50319-0034  
(515) 725-9545

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

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

**G31. Prevention of Air Pollution Emergency Episodes**

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

*567 IAC 26.1(1)*

**G32. Contacts List**

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

Iowa Compliance Officer  
Air Branch  
Enforcement and Compliance Assurance Division  
U.S. EPA Region 7  
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  
Wallace State Office Building  
502 E 9<sup>th</sup> St.  
Des Moines, IA 50319-0034  
(515) 725-8200

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

**Field Office 1**

1101 Commercial Court, Suite 10  
Manchester, IA 52057  
(563) 927-2640

**Field Office 2**

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

**Field Office 3**

1900 N. Grand Ave.  
Spencer, IA 51301  
(712) 262-4177

**Field Office 4**

1401 Sunnyside Lane  
Atlantic, IA 50022  
(712) 243-1934

**Field Office 5**

Wallace State Office Building  
502 E 9<sup>th</sup> St.  
Des Moines, IA 50319-0034  
(515) 725-0268

**Field Office 6**

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

**Polk County Public Works Dept.**

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

**Linn County Public Health**

Air Quality Branch  
1020 6<sup>th</sup> Street SE  
Cedar Rapids, IA 52401  
(319) 892-6000

## V. Appendix

- A. 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

<http://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.iiii>

- B. 40 CFR Part 63 Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

<https://www.ecfr.gov/cgi-bin/text-idx?c=ecfr;rgn=div6;view=text;node=40%3A14.0.1.1.1.1;idno=40;sid=e94dcfde4a04b27290c445a56e635e58;cc=ecfr>

- C. 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial- Institutional Steam Generating Units

[https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.d\\_0c](https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.d_0c)