

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

**Name of Permitted Facility: General Mills Operations, Inc.**

**Facility Location: 4800 Edgewood Road, SW  
Cedar Rapids, IA 52404**

**Air Quality Operating Permit Number: 04-TV-016R1**

**Expiration Date: April 14, 2019**

**Permit Renewal Application Deadline: October 14, 2018**

**EIQ Number: 92-9085**

**Facility File Number: 57-01-012**

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**Responsible Official**

**Name: Mr. Rue Patel**

**Title: Plant Manager**

**Mailing Address: PO Box 3007, Cedar Rapids, IA 52406-3007**

**Phone #: (319) 390-2140**

**Permit Contact Person for the Facility**

**Name: Ms. Katie Cargin**

**Title: Environmental Manager**

**Mailing Address: PO Box 3007, Cedar Rapids, IA 52406-3007**

**Phone #: (319) 390-2188**

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This permit is issued in accordance with 567 Iowa Administrative Code Chapter 22, and is issued subject to the terms and conditions contained in this permit.

**For the Director of the Department of Natural Resources**



Lori Hanson, Supervisor of Air Operating Permits Section

4/15/14

Date

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## **V. Appendices**

**Appendix A:** NSPS Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units

**Appendix B:** NSPS Subpart IIII, New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines.

**Appendix C:** NSPS Subpart JJJJ, Standards of Performance Standards for Stationary Spark Ignition Internal Combustion Engines for EP 181, MCC Emergency Generator 200 kW Natural Gas.

**Appendix D:** NESHAP Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

## 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: General Mills Operations, Inc.

Permit Number: 04-TV-016-R1

Facility Description: Breakfast Cereal Manufacturing Facility (SIC 2043)

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## Equipment List

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<b>Emission Point Number</b>	<b>Emission Unit Number</b>	<b>Associated Emission Unit Description</b>	<b>LCPH ATI / PTO Numbers</b>
1	EU001A	Boiler #1 (Natural Gas)	40B / 4581R2
1	EU001B	Boiler #1 (Propane)	40B / 4581R2
2	EU002A	Boiler #2 (Natural Gas)	40B / 4582R2
2	EU002B	Boiler #2 (Propane)	40B / 4582R2
102	EU102	Dryer	4324 / 4520R2
103	EU103	Dryer	5826/5564R1
104	EU104	Cookers	4931 / 5023R2
105	EU105	Product Receiver	6228/6006
107	EU107	Shaper	4444 / 4664R1
108	EU108	Shaper	4477 / 4756R1
109	EU109	Shaper	4544 / 4755R1
125	EU125	Slurry	4329 / 4523R1
130	EU130	Dryer	5719 / 5961R1
132	EU132A	Gas Fired Preheater (Natural Gas)	61785939
132	EU132B	Gas Fired Preheater (Propane)	6178 / 5939
133	EU133	Cooker	5720 / 5962
134	EU134	Dryer	5721 / 5963R1
135	EU135	Shaper	4546 / 4757R1
136	EU136	Cooker	5722 / 5964
137	EU137	Dryer	5700 / 5965R1
138	EU138	Dryer	5947 / 5683R1
139	EU139A	Gas Fired Preheater (Natural Gas)	2317 / 4601R2
139	EU139B	Gas Fired Preheater (Propane)	2317 / 4601R2
140	EU140A	Gas Fired Preheater (Natural Gas)	2316 / 4602R1
140	EU140B	Gas Fired Preheater (Propane)	2316 / 4602R1
141	EU141A	Gas Fired Preheater (Natural Gas)	2324 / 4603R2
141	EU141B	Gas Fired Preheater (Propane)	2324 / 4603R2
145	EU145	Shaper	4478 / 4758R1
146	EU146	Shaper	4638 / 4759R2
147	EU147	Shaper	4639 / 4760R1
148	EU148	Liquid Mix	5827 / 5565R1
150	EU150A	Gas Fired Preheater (Natural Gas)	5818 / 5566R1

150	EU150B	Gas Fired Preheater (Propane)	5818 / 5566R1
151	EU151A	Gas Fired Preheater (Natural Gas)	6179 / 5940
151	EU151B	Gas Fired Preheater (Propane)	6179 / 5940
152	EU152	Base Bin	5374 / 5375R1
159	EU159	Propane Gas Feed Vaporizer	3905 / 4579
160	EU160	Central Vacuum System	6233 / 6007
161	EU161	Dryer	5141 / 5087R2
162	EU162	Standby Generator	6234 / 6008
163	EU163	Dryer	4340 / 4665R1
164	EU164A	Gas Fired Preheater (Natural Gas)	5819 / 5567R1
164	EU164B	Gas Fired Preheater (Propane)	5819 / 5567R1
166	EU166A	Shop Emergency Generator (Standby) (Natural Gas)	6236 / 6010
166	EU166B	Shop Emergency Generator (Standby) (Propane)	6236 / 6010
167	EU167	Standby Diesel Generator	6237/6011
168	EU168	Extruder	5863/5772R1
169	EU169	Pelletizer	5864/5773R1
170	EU170	Dryer	5865/5774R2
171	EU171	Preheater	5866/5775R2
172	EU172	Heater	5867/5776R1
173	EU173	Dryer	5868/5777R1
174	EU174	Mix	5869/5778R1
175	EU175	Dryer	5870/5779R2
176	EU176	Cooler	5871/5780R2
177	EU177	Dryer	5948/5684R1
178	EU178	Water Heater	5979/5781
179	EU179	Propane Burner	6002/5720R2
180	EU180	Product Receiver	6208/5989
181	EU181A	MCC Emergency Generator 200 kW (Natural Gas )	6297/ 6135R1
200	EU200	Product Receiver	6238 / 6012R1
305	EU305	Dryer	5980/ 5662
306	EU306	Dryer	5981/ 5663
307	EU307	Standby Generator 500 kW	4607 / 4762
308	EU308	Product Receiver	5139/5339
309	EU309	Dryer	5982/5664
310	EU310	Receiver	6038/5771
313	EU313A	Boiler #3 (Natural Gas)	2533 / 4583R2
313	EU313B	Boiler #3 (Propane)	2533 / 4583R2
321	EU321A	Water Heater (Natural Gas)	3886 / 4584R2
321	EU321B	Water Heater (Propane)	3886 / 4584R2
322	EU322A	Water Heater (Natural Gas)	3887 / 4585R2
322	EU322B	Water Heater (Propane)	3887 / 4585R2
324	EU324	Dryer	5983 / 5665
325	EU325	Dryer	5984 /5666

326	EU326	Dryer	5985/5667
327	EU327A	Boiler #4 (Natural Gas)	4009 / 4586R2
327	EU327B	Boiler #4 (Propane)	4009 / 4586R2
330	EU330	Standby Generator	4144 / 4644R4
339	EU339	Material Conditioner	5724 / 5542R1
400	EU400	F-2 Condenser #4	5509/5377
500	EU500	C-1 Condenser #2	5688/5522
501	EU501	Condenser #3	5862/5755
502	EU502	C-1 Condenser #4	6384/ 6117R1
600	EU600	Receiver	6390/ 6118
700	EU700	Receiver	5828/5619
701	EU701	Receiver	5830/5620
702	EU702	Receiver	5882/5891
703	EU703	Receiver	5883/5892
704	EU704	Receiver	5884/5893
705	EU705	Receiver	5885/5894
706	EU706	Receiver	5886/5721
707	EU707	Receiver	5887/5722
708	EU708	Receiver	5888/5723
709	EU709	Hopper	5889/5724
710	EU710	Bag Dump	5890/5725
711	EU711	Bag Dump	5891/5726
712	EU712	Bag Dump	5892/5895
713	EU713	Receiver	5893/5727
714	EU714	Receiver	5894/5896
715	EU715	Mixer, Receiver, Bin	5895/5897
716	EU716	Blowers (3) and Aspirator	6027/5898
717	EU717	Bins (3)	5897/5899
718	EU718	Blower	5898/5900
719	EU719	Receiver	5899/5901
720	EU720	Super Sack	5900/5902
721	EU721	Receiver	5901/5728
722	EU722	Receiver	5902/5729
723	EU723	Receiver	5903/5903
724	EU724	Airlock	5904/5730R1
725	EU725	Air Classifier	5905/5904
726	EU726	Bins (4)	5906/5905
727	EU727	Bins (2)	5907/5731
728	EU728	Bins (2)	5908/5732
729	EU729	Receiver	5909/5733
730	EU730	Receiver	5910/5734
731	EU731	Receiver	5911/5735
732	EU732	Receiver	5912/5736
733	EU733	Hopper	5949/5906
734	EU734	Hopper	5950/5907R1
735	EU735	Hopper	5951/5908R1

<b>736</b>	<b>EU736</b>	<b>Hopper</b>	<b>5952/5909R1</b>
<b>737</b>	<b>EU737</b>	<b>Multiple Pickups</b>	<b>5953/5737</b>
<b>738</b>	<b>EU738</b>	<b>Hopper</b>	<b>5954/5910</b>
<b>739</b>	<b>EU739</b>	<b>Weigh Station</b>	<b>5970/5911</b>
<b>740</b>	<b>EU740</b>	<b>Bead Blaster</b>	<b>5971/5912</b>
<b>741</b>	<b>EU741</b>	<b>Receiver</b>	<b>6111/5922</b>
<b>742</b>	<b>EU742</b>	<b>Grinder</b>	<b>6177/5951</b>
<b>743</b>	<b>EU743</b>	<b>Receiver</b>	<b>6245/</b>
<b>744</b>	<b>EU744</b>	<b>Receiver</b>	<b>6262/6083</b>
<b>800</b>	<b>EU800</b>	<b>Receiver</b>	<b>6391/ 6218</b>

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**Insignificant Equipment List**

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<b>Insignificant Emission Unit Number</b>	<b>Insignificant Emission Unit Description</b>
<b>INSFUG2</b>	<b>Maintenance Sand Blasting Areas</b>
<b>INSFUG3</b>	<b>Maintenance Welding Areas</b>
<b>INSFUG4</b>	<b>Multiple Dust Collectors Exhausting Inside Plant – Non-Permitted Points</b>
<b>INSFUG5</b>	<b>By Products Load Out</b>
<b>INSFUG6</b>	<b>Maintenance Parts Washers</b>
<b>INSFUG7</b>	<b>Ink Jet Coders</b>
<b>INSFUG8</b>	<b>Effluent Neutralization Tank</b>
<b>INSFUG9</b>	<b>Cleaning Chemical Storage</b>
<b>INSFUG10</b>	<b>Case Code Daters</b>
<b>INSFUG11</b>	<b>Multiple Case Gluers</b>
<b>INSFUG12</b>	<b>Container Laser Coding</b>
<b>INSFUG13</b>	<b>Label Printers for Pallets</b>
<b>INSFUG14</b>	<b>Vacuum Pump Exhausts</b>
<b>INSFUG15</b>	<b>Diesel Fuel Storage Tanks</b>
<b>INSFUG16</b>	<b>Skimmer Tanks</b>
<b>INSFUG17</b>	<b>Used Oil Tanks</b>
<b>INSFUG18</b>	<b>Diesel Powered Fire Pump</b>
<b>INSFUG19</b>	<b>Gluing at Unitizers</b>
<b>INSFUG20</b>	<b>Forklift Battery Charging</b>
<b>INSFUG21</b>	<b>Air Drying Equipment</b>
<b>INSFUG22</b>	<b>Maintenance Painting</b>
<b>INSFUG23</b>	<b>Wash Rack Exhausts</b>
<b>INSFUG24</b>	<b>Knife Blade Sharpener</b>
<b>INSFUG25</b>	<b>Rail Switch Heater</b>
<b>EUINS1</b>	<b>Multiple Dust Collectors Exhausting Inside Plant – Permitted Points</b>

## II. Plant-Wide Conditions

Facility Name: **General Mills Operations, Inc.**

Permit Number: 04-TV-016-R1

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: April 15, 2014

Ending on: April 14, 2019

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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### Plant-Wide Emission Limits

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

#### Combustion Bubble Limit:

Nitrogen Oxide (NO<sub>x</sub>): 235 tpy

This emission limit shall apply to the following emission points:

<b>Emission Unit</b>	<b>Emission Point Description</b>	<b>Nitrogen Oxide (NO<sub>x</sub>)</b>	<b>Authority for Requirement</b>
EU001	Boiler #1	235 tpy	LCPH ATI 40B / PTO 4581R2
EU002	Boiler #2	235 tpy	LCPH ATI 40B / PTO 4582R2
EU132	Gas Fired Preheater	235 tpy	LCPH ATI 6178 / PTO 5939
EU139	Gas Fired Preheater	235 tpy	LCPH ATI 2317 / PTO 4601R2
EU140	Gas Fired Preheater	235 tpy	LCPH ATI 2316 / PTO 4602R2
EU141	Gas Fired Preheater	235 tpy	LCPH ATI 2324 / PTO 4603R2
EU150	Gas Fired Preheater	235 tpy	LCPH ATI 5818 / PTO 5566R1
EU151	Gas Fired Preheater	235 tpy	LCPH ATI 6179 / PTO 5940
EU159	Propane Gas Feeder Vaporizer	235 tpy	LCPH ATI 3905 / PTO 4579
EU162	Standby Diesel Generator 800 eKW	235 tpy	LCPH ATI 6234 / PTO 6008
EU164	Gas Fired Preheater	235 tpy	LCPH ATI 5819 / PTO 5567
EU166	Shop Emergency Generator (Standby)	235 tpy	LCPH ATI6236 / PTO 6010
EU167	Standby Generator 800 kW	235 tpy	LCPH ATI 6237/ PTO 6011
EU172	Heater	235 tpy	LCPH ATI 5867/ PTO 5776R1

EU178	Water Heater	235 tpy	LCPH ATI 5979/ PTO 5781
EU179	Propane Purge Burner	235 tpy	LCPH ATI 6002/ PTO 5720R2
EU181	200 kW Natural Gas Emergency Generator	235 tpy	LCPH ATI 2317/ PTO 4601
EU307	Standby Generator 500 kW	235 tpy	LCPH ATI 4607 / PTO 4762
EU313	Boiler #3	235 tpy	LCPH ATI 2533 / PTO 4583R2
EU321	Water Heater	235 tpy	LCPH ATI 3886 / PTO 4584R2
EU322	Water Heater	235 tpy	LCPH ATI 3887 / PTO 4585R2
EU327	Boiler #4	235 tpy	LCPH ATI 4009 / PTO 4586R2
EU330	Backup Diesel Generator	235 tpy	LCPH ATI 4144 / PTO 4644R4

**Facility Operating Limits:**

- Propane usage shall be limited to 12,000,000 gallons per year based on a 12-month rolling total.
- Emission units shall only use natural gas, propane and/or diesel fuel.

**Facility Bubble Permit Recordkeeping Requirements:**

- Track on a monthly basis the total gallons of propane used and calculate propane fuel usage using a 12-month rolling total for all emission points in the bubble permit.
- Calculate on a monthly basis the total NOx emissions from burning propane for emission sources in the bubble permit. Apply this to a 12-month rolling total for NOx sources.
- Track on a monthly basis the total amount of natural gas used and calculate natural gas fuel usage using a 12-month rolling total for all emission points in the bubble permit.
- Calculate on a monthly basis the total NOx emissions from burning natural gas for emission sources identified in the bubble permit. Apply this to a 12-month rolling total for NOx sources.
- Track on a monthly basis the total amount of diesel fuel used and calculate diesel fuel usage using a 12-month rolling total for all emission points in the bubble permit.
- Calculate on a monthly basis the total NOx emissions from burning diesel fuel for emission sources in the bubble permit. Apply this to a 12-month rolling total for NOx sources.

**Facility Reporting:**

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

- Submit a quarterly report summarizing the facility's 12-month rolling NOx emission totals for emission sources in the bubble permit.
- Submit a quarterly report summarizing the facility's propane usage based on a 12-month rolling total.

<b>Emission Unit</b>	<b>Operating Limits</b>	<b>Recordkeeping Requirements</b>	<b>Reporting</b>	<b>Authority for Requirement</b>
EU001	12,000,000 gal/yr propane	Monthly fuel usage and emissions calculations.	Quarterly propane use & NO <sub>x</sub> emissions	LCPH ATI 40B / PTO 4581R2
EU002	12,000,000 gal/yr propane	Monthly fuel usage and emissions calculations.	Quarterly propane use & NO <sub>x</sub> emissions	LCPH ATI 40B / PTO 4582R2
EU132	12,000,000 gal/yr propane	Monthly fuel usage and emissions calculations.	Quarterly propane use & NO <sub>x</sub> emissions	LCPH ATI 6178 / PTO 5939
EU139	12,000,000 gal/yr propane	Monthly fuel usage and emissions calculations.	Quarterly propane use & NO <sub>x</sub> emissions	LCPH ATI 2317/PTO 4601R2
EU140	12,000,000 gal/yr propane	Monthly fuel usage and emissions calculations.	Quarterly propane use & NO <sub>x</sub> emissions	LCPH ATI 2316 / PTO 4602R1
EU141	12,000,000 gal/yr propane	Monthly fuel usage and emissions calculations.	Quarterly propane use & NO <sub>x</sub> emissions	LCPH ATI 2324 / PTO 4603R2
EU150	12,000,000 gal/yr propane	Monthly fuel usage and emissions calculations.	Quarterly propane use & NO <sub>x</sub> emissions	LCPH ATI 5818/ PTO 5566R1
EU151	12,000,000 gal/yr propane	Monthly fuel usage and emissions calculations.	Quarterly propane use & NO <sub>x</sub> emissions	LCPH ATI 6179 / PTO 45940
EU159	12,000,000 gal/yr propane	Monthly fuel usage and emissions calculations.	Quarterly propane use & NO <sub>x</sub> emissions	LCPH ATI 3905 / PTO 4579
EU162	12,000,000 gal/yr propane	Monthly fuel usage and emissions calculations.	Quarterly propane use & NO <sub>x</sub> emissions	LCPH ATI 6234 / PTO 6008
EU164	12,000,000 gal/yr propane	Monthly fuel usage and emissions calculations.	Quarterly propane use & NO <sub>x</sub> emissions	LCPH ATI 5819 / PTO 5567R1
EU166	12,000,000 gal/yr propane	Monthly fuel usage and emissions calculations.	Quarterly propane use & NO <sub>x</sub> emissions	LCPH ATI 6236 / PTO 6010
EU167	12,000,000 gal/yr propane	Monthly fuel usage and emissions calculations.	Quarterly propane use & NO <sub>x</sub> emissions	LCPH ATI 6237/ PTO 6011
EU172	12,000,000 gal/yr propane	Monthly fuel usage and emissions calculations.	Quarterly propane use & NO <sub>x</sub> emissions	LCPH ATI 5867 / PTO 5776
EU178	12,000,000 gal/yr propane	Monthly fuel usage and emissions calculations.	Quarterly propane use & NO <sub>x</sub> emissions	LCPH ATI 5979 / PTO 5781
EU179	12,000,000 gal/yr propane	Monthly fuel usage and emissions calculations.	Quarterly propane use & NO <sub>x</sub> emissions	LCPH ATI 6002 / PTO 5720R2

EU181	12,000,000 gal/yr propane	Monthly fuel usage and emissions calculations.	Quarterly propane use & NO <sub>x</sub> emissions	LCPH ATI 2317 / PTO 4601R1
EU307	12,000,000 gal/hr propane	Monthly fuel usage and emissions calculations.	Quarterly propane use & NO <sub>x</sub> emissions	LCPH ATI 4607 / PTO 4762
EU313	12,000,000 gal/yr propane	Monthly fuel usage and emissions calculations.	Quarterly propane use & NO <sub>x</sub> emissions	LCPH ATI 2533 / PTO 4583R2
EU321	12,000,000 gal/yr propane	Monthly fuel usage and emissions calculations.	Quarterly propane use & NO <sub>x</sub> emissions	LCPH ATI 3886 / PTO 4584R2
EU322	12,000,000 gal/yr propane	Monthly fuel usage and emissions calculations.	Quarterly propane use & NO <sub>x</sub> emissions	LCPH ATI 3887 / PTO 4585R2
EU327	12,000,000 gal/yr propane	Monthly fuel usage and emissions calculations.	Quarterly propane use & NO <sub>x</sub> emissions	LCPH ATI 4009 / PTO 4586R2
EU330	12,000,000 gal/yr propane	Monthly fuel usage and emissions calculations.	Quarterly propane use & NO <sub>x</sub> emissions	LCPH ATI 4144 / PTO 4644R4

**VOC Bubble Limit:**

Volatile Organic Compounds (VOC): 226 tpy

This emission limit is a facility bubble limit for volatile organic compounds (VOCs) emitted from the use of flavorings in the fruit and cereal processes, both fugitive and point source emissions, at the facility.

This emission limit shall apply to the following emission points:

<b>Emission Unit</b>	<b>Volatile Organic Compounds (VOC)</b>	<b>Authority for Requirement</b>
EU305	226 tpy	LCPH ATI 5980 / PTO 5662
EU306	226 tpy	LCPH ATI 5981 / PTO 5663
EU309	226 tpy	LCPH ATI 5982 / PTO 5664
EU324	226 tpy	LCPH ATI 5983 / PTO 5665
EU325	226 tpy	LCPH ATI 5984 / PTO 5666
EU326	226 tpy	LCPH ATI 5985 / PTO 5667

The amount of VOC emitted shall be tracked using a mass balance analysis based on ingredient flavors. When calculating VOC emissions from flavorings used at the facility, the facility will assume the following:

- 100% of the ethyl alcohol (EA) content is emitted in the process
- 100% of the propylene glycol (PG) content is retained in the product

The amount of VOC emitted shall be reported each year with one emission point, EP305, as tons of VOCs as the total for all emission points

Tracking of ingredient flavor use will be completed via internal ingredient tracking methods. This information will be compiled by the environmental professionals and kept as a 12-month rolling total.

**Facility Operating Limits:**

Sources covered under the bubble limit shall comply with the following operational limits:

- 94,000 pounds per year usage of flavorings with a maximum ethyl alcohol content of 100% (60.01% - 100.00%)
- 250,000 pounds per year usage of flavorings with a maximum ethyl alcohol content of 60% (25.01% - 60.00%)
- 800,000 pounds per year usage of flavorings with a maximum ethyl alcohol content of 25% (1.01% - 25.00%)
- 800,000 pounds per year usage of flavorings with a maximum ethyl alcohol content of 1% (0% - 1.00%)

The facility may substitute, change or add any food grade ingredient to any of its manufacturing processes as necessary within the facility operating limits.

**Facility Monitoring:**

- Test 1 fruit sample every other calendar year for retention of the propylene glycol (PG).

**Facility Recordkeeping:**

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

The facility will track, calculate monthly, and apply a 12-month rolling total to the following items:

- VOC emissions associated to flavoring use for all VOC flavoring sources
- Pounds used of flavorings with an EA content above 60% (60.01% - 100.00%)
- Pounds used of flavorings with an EA content between 25% and 60% (25.01% - 60.00%)
- Pounds used of flavorings with an EA content between 1% and 25% (1.01% - 25.00%)
- Pounds used of flavorings with an EA content 1% or below (0-1.00%)

The facility must keep records of the VOC content of each flavoring product.  
The facility must track once a calendar year the total use of propylene glycol.

To verify the ingredient inventory, the following will be required to be recorded:

- Inventory will be counted monthly
- Record flavoring usage on a monthly basis

**Reporting:**

The following information shall be submitted to the Linn County Public Health by the 30<sup>th</sup> of each month for the previous quarter (January 30, April 30, July 30 and October 30).

Submit a quarterly report summarizing the following information:

- The 12-month rolling total of VOC emissions from flavoring use in fruit and cereal processes
- The 12-month rolling total pounds of flavorings used with EA content above 60% (60.01% - 100.00%)
- The 12-month rolling total pounds of flavorings used with an EA content between 25% and 60% (25.01% - 60.00%)
- The 12-month rolling total pounds of flavorings used with an EA content between 1% and 25% (1.01% - 25.00%)
- The 12-month rolling total pounds of flavorings used with an EA content 1% or below (0-1.00%)

Submit annually by March 31 of each year for the previous calendar year the following:

- Annual use of propylene glycol in pounds

<b>Emission Unit</b>	<b>Operating Limits</b>	<b>Recordkeeping Requirements</b>	<b>Reporting</b>	<b>Authority for Requirement</b>
EU305	Maximum lbs flavoring used	12-month rolling total VOC emissions & lbs flavoring used	Quarterly rolling total VOC emissions & lbs flavorings, annual PG	LCPH ATI 5980 / PTO 5662
EU306	Maximum lbs flavoring used	12-month rolling total VOC emissions & lbs flavoring used	Quarterly rolling total VOC emissions & lbs flavorings, annual PG	LCPH ATI 5981/ PTO 5663
EU309	Maximum lbs flavoring used	12-month rolling total VOC emissions & lbs flavoring used	Quarterly rolling total VOC emissions & lbs flavorings, annual PG	LCPH ATI 5982 / PTO 5664
EU324	Maximum lbs flavoring used	12-month rolling total VOC emissions & lbs flavoring used	Quarterly rolling total VOC emissions & lbs flavorings, annual PG	LCPH ATI 5983 / PTO 5665
EU325	Maximum lbs flavoring used	12-month rolling total VOC emissions & lbs flavoring used	Quarterly rolling total VOC emissions & lbs flavorings, annual PG	LCPH ATI 5984 / PTO 5666
EU326	Maximum lbs flavoring used	12-month rolling total VOC emissions & lbs flavoring used	Quarterly rolling total VOC emissions & lbs flavorings, annual PG	LCPH ATI 5985/ PTO 5667

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

Opacity (visible emissions): 20% opacity

Authority for Requirement: LCO 10.7

Sulfur Dioxide (SO<sub>2</sub>): 500 parts per million by volume

Authority for Requirement: 567 IAC 23.3(3)"e"  
LCO 10.12(2)

Particulate Matter:

No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For

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

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

Fugitive Dust: Attainment and Unclassified Areas - 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"

### **Regulatory Authority**

This facility is located in Linn County, Iowa. Linn County Public Health, under agreement with the Iowa Department of Natural Resources (IDNR), is the primary regulatory agency in Linn County. This Title V permit is issued by the Iowa Department of Natural Resources, however, required contacts and information submittals referred to in this permit as required by "the Department" should continue to be directed to the Linn County Public Health office. This will

include such items as stack test notification, stack test results submittal, oral and written excess emission reports, and reports and records required in the Linn County construction permits. Information specifically required by the Title V permit such as the annual EIQ and fees, annual compliance certification, semi-annual monitoring report and any Title V forms submitted for updates, modifications, renewals, etc. must be submitted to the Iowa DNR.

Authority for Requirement: 567 IAC 22.108

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**Compliance Plan**

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

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

Authority for Requirement: 567 IAC 22.108(15)

### III. Emission Point-Specific Conditions

Facility Name: **General Mills Operations, Inc.**  
Permit Number: **04-TV-016**

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#### **Emission Point ID Number: 1**

##### Associated Equipment

Associated Emission Unit ID Numbers: EU001

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Emission Unit vented through this Emission Point: EU001  
Emission Unit Description: Boiler #1  
Raw Material/Fuel: Natural Gas, Propane  
Rated Capacity: 40 MMBtu/hr

### Applicable Requirements

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

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

Pollutant: Opacity  
Emission Limit(s): 20%  
Authority for Requirement: LCPH ATI 40 / PTO 4581R2  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 0.30 lb/hr  
Authority for Requirement: LCPH ATI 40 / PTO 4581R2

Pollutant: Particulate Matter  
Emission Limit(s): 0.30 lb/hr  
Authority for Requirement: LCPH ATI 40 / PTO 4581R2

Pollutant: Particulate Matter  
Emission Limit(s): 0.3 lb/MMBtu  
Authority for Requirement: LCPH ATI 40 / PTO 4581R2  
LCO 10.8(2)"b"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limit(s): 1.5 lbs/MMBTU (liquid fuel)  
Authority for Requirement: LCPH ATI 40 / PTO 4581R2

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

Emission Limit(s): 235 tpy

Authority for Requirement: LCPH ATI 40 / PTO 4581R2

See Plant-Wide Conditions for Plant-Wide NO<sub>x</sub> limit.

### **Operational Limits & Requirements**

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

See Plant-Wide Conditions section for Facility Operating Limits, Recordkeeping Requirements and Reporting Requirements that apply to this emission point.

### **Emission Point Characteristics**

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

Stack Height (ft, from ground): 78

Discharge Style: Vertical, Obstructed

Stack Opening (inches, diameter): 36

Exhaust Temperature (°F): 450

Exhaust Flowrate (scfm): 5665

Authority for Requirement: LCPH ATI 40 / PTO 4581R2

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

### **Monitoring Requirements**

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

Stack testing is not required at this time.

### **Opacity Monitoring:**

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

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 2**

Associated Equipment

Associated Emission Unit ID Numbers: EU002

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Emission Unit vented through this Emission Point: EU002

Emission Unit Description: Boiler #2

Raw Material/Fuel: Natural Gas, Propane

Rated Capacity: 40 MMBtu/hr

## Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 20%

Authority for Requirement: LCPH ATI 40B / PTO 4582R2

LCO 10.7

Pollutant: PM-10

Emission Limit(s): 0.30 lb/hr

Authority for Requirement: LCPH ATI 40B / PTO 4582R2

Pollutant: Particulate Matter

Emission Limit(s): 0.30 lb/hr,

Authority for Requirement: LCPH ATI 40B / PTO 4582R2

Pollutant: Particulate Matter

Emission Limit(s): 0.3 lb/MMBtu

Authority for Requirement: LCO 10.8(2)"b"

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

Emission Limit(s): 1.5 lbs/MMBTU (liquid fuel)

Authority for Requirement: LCPH ATI 40B / PTO 4582R2

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

Emission Limit(s): 235 tpy

Authority for Requirement: LCPH ATI 40B / PTO 4582R2

See Plant-Wide Conditions for Plant-Wide NO<sub>x</sub> limit.

### **Operational Limits & Requirements**

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

See Plant-Wide Conditions section for Facility Operating Limits, Record keeping Requirements and Reporting Requirements that apply to this emission point.

### **Emission Point Characteristics**

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

Stack Height (ft, from ground): 78

Discharge Style: Vertical, Obstructed

Stack Opening (inches, diameter): 36

Exhaust Temperature (°F): 450

Exhaust Flowrate (scfm): 5689

Authority for Requirement: LCPH ATI 4772 / PTO 4582R2

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

### **Monitoring Requirements**

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

Stack testing is not required at this time.

#### **Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 102**

Associated Equipment

Associated Emission Unit ID Numbers: EU102  
Emissions Control Equipment ID Number: CE102  
Emissions Control Equipment Description: Wet Scrubber

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Emission Unit vented through this Emission Point: EU102  
Emission Unit Description: Dryer  
Raw Material/Fuel: Finished Cereal  
Rated Capacity: 13.98 ton/hr

**Applicable Requirements**

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

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

Pollutant: Opacity  
Emission Limit(s): 20%  
Authority for Requirement: LCPH ATI 4324 / PTO 4520R2  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 0.68 lb/hr  
Authority for Requirement: LCPH ATI 4324 / PTO 4520R2

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/scf, 0.68lbs/hr,  
Authority for Requirement: LCPH ATI 4324 / PTO 4520R2  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

**Operational Limits & Requirements**

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

**Control Device:**

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

Authority for Requirement: LCPH ATI 4324 / PTO 4520R2

**Operating Limits:**

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

- A. Water flow rate to the scrubber unit shall be maintained at a minimum of 5 gallons per minute at all times while the unit is in operation.
- B. Recycled permeate water turbidity readings over 10 NTU shall require the owner/operator to promptly investigate the cause of elevated turbidity and take corrective action. The turbidity of the recycled permeate water must be taken prior to the addition of city makeup water in the permeate storage tank.
- C. The following emission points with scrubber control shall not discharge scrubber water into the recycled permeate water: EP 102, 103, 125, 130, 148, 161, 163, 169, 174, 175, 176. The scrubber water from these sources shall be discharged into the city sewer.
- D. The control equipment shall be maintained according to the manufacturer's specification and/or good operating practices.

Authority for Requirement: LCPH ATI 4324 / PTO 4520R2

**Operating Condition Monitoring and Recordkeeping:**

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

- A. Monitor and record the scrubber water flow rate on a daily basis.
- B. Monitor and record all maintenance and repair completed on the control device.
- C. Monitor and record the turbidity of the permeate water on a weekly basis.
- D. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance and record the corrective action taken. .

**Note:** *The operation of an audible alarm system for the scrubber unit may be operated in lieu of daily logging of the water flow rates to the scrubber unit provided that the low level alarm set point is at least 5 gallons per minute.*

Authority for Requirement: LCPH ATI 4324 / PTO 4520R2

**Emission Point Characteristics**

Stack Height (feet from ground): 73

Discharge Style: Vertical, unobstructed

Stack Opening (inches in diameter): 30

Exhaust Temperature (°F): 125

Exhaust Flowrate (scfm): 7872

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

Authority for Requirement: LCPH ATI 4324 / PTO 4520R2

**Monitoring Requirements**

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

Stack testing is not required at this time.

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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## **Emission Point ID Number: 103**

### Associated Equipment

Associated Emission Unit ID Numbers: EU103  
Emissions Control Equipment ID Number: CE103  
Emissions Control Equipment Description: Wet Scrubber

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Emission Unit vented through this Emission Point: EU103  
Emission Unit Description: Dryer  
Raw Material/Fuel: Finished Cereal  
Rated Capacity: 11.64 ton/hr

## **Applicable Requirements**

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

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

Pollutant: Opacity  
Emission Limit(s): 20%<sup>1</sup>  
Authority for Requirement: LCPH ATI 5826 / PTO 5564R1  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 0.84 lb/hr  
Authority for Requirement: LCPH ATI 5826 / PTO 5564R1

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/scf, 0.84 lb/hr  
Authority for Requirement: LCPH ATI 5826 / PTO 5564R1  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

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

### **Operational Limits & Requirements**

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

**Control Device:**

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

Authority for Requirement: LCPH ATI 5826 / PTO 5564R1

**Operating Limits:**

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

- A. Water flow to the scrubber unit shall be maintained at a minimum of 8 gallons per minute at all times while the unit is in operation.
- B. Recycled permeate water turbidity readings over 10 NTU shall require the owner/operator to promptly investigate the cause of elevated turbidity and take corrective action. The turbidity of the recycled permeate water must be taken prior to the addition of city makeup water in the permeate storage tank.
- C. The following emission points with scrubber control shall not discharge scrubber water into the recycled permeate water: EP 102, 103, 125, 130, 148, 161, 163, 169, 174, 175, 176. The scrubber water from these sources shall be discharged into the city sewer.
- D. The control equipment shall be maintained according to the manufacturer's specification and/or good operating practices.

Authority for Requirement: LCPH ATI 5826 / PTO 5564R1

**Operating Condition Monitoring and Recordkeeping:**

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

- A. Monitor and record the scrubber water flow rate on a daily basis.
- B. Monitor and record any maintenance or repair completed on the control device.
- C. Monitor and record the turbidity of the permeate water on a weekly basis.
- D. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

**Note:** *The operation of an audible low water flow alarm system for the scrubber unit may be operated in lieu of daily logging of the water flow rate to the scrubber unit provided that the low level alarm set point is at least 8 gallons per minute.*

Authority for Requirement: LCPH ATI 5826 / PTO 5564R1

**Reporting Requirements**

- A. There are no quarterly reporting requirements for this permitted source.

**Emission Point Characteristics**

Stack Height (feet from ground): 80  
Discharge Style: Vertical, unobstructed  
Stack Opening (inches in diameter): 32  
Exhaust Temperature (°F): 94  
Exhaust Flowrate(scfm): 11,047  
Authority for Requirement: LCPH ATI 5826 / PTO 5564R1

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

**Monitoring Requirements**

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

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 104**

Associated Equipment

Associated Emission Unit ID Numbers: EU104  
Emissions Control Equipment ID Number: CE104  
Emissions Control Equipment Description: Wet Scrubber

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Emission Unit vented through this Emission Point: EU104  
Emission Unit Description: Cookers  
Raw Material/Fuel: Wet Dough  
Rated Capacity: 10.25 ton/hr

## Applicable Requirements

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

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

Pollutant: Opacity<sup>1</sup>  
Emission Limit(s): 20%  
Authority for Requirement: LCPH 4931 / PTO 5023R2  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 0.89 lb/hr  
Authority for Requirement: LCPH ATI 4931 / PTO 5023R2

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/dscf, 0.89 lb/hr  
Authority for Requirement: LCPH ATI 4931/ PTO 5023R2  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

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

**Operational Limits & Requirements**

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

**Control Device:**

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

Authority for Requirement: LCPH ATI 4931 / PTO 5023R2

**Operating Limits:**

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

- A. Water flow rate to the scrubber unit shall be maintained at a minimum of 5 gallons per minute at all times while the unit is in operation.
- B. Recycled permeate water turbidity readings over 10 NTU shall require the owner/operator to promptly investigate the cause of elevated turbidity and take corrective action. The turbidity of the recycled permeate water must be taken prior to the addition of city makeup water in the permeate storage tank.
- C. The following emission points with scrubber control shall not discharge scrubber water into the recycled permeate water: EP 102, 103, 125, 130, 148, 161, 163, 169, 174, 175, 176. The scrubber water from these sources shall be discharged into the city sewer.
- D. The control equipment shall be maintained according to the manufacturer's specification and/or good operating practices.

Authority for Requirement: LCPH ATI 4931 / PTO 5023R2

**Operating Condition Monitoring and Recordkeeping:**

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

- A. Monitor and record the scrubber water flow rate on a daily basis.
- B. Monitor and record the turbidity of the permeate water on a weekly basis.
- C. Record any corrective action or maintenance completed to lower turbidity levels.
- D. Monitor and record all maintenance and repair completed on the control device.
- E. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance and record the corrective action taken.

**Note:** *The operation of an audible alarm system for the scrubber unit may be operated in lieu of daily logging of the water flow rates to the scrubber unit provided that the low level alarm set point is at least 5 gallons per minute.*

Authority for Requirement: LCPH ATI 4931 / PTO 5023R2

**Emission Point Characteristics**

Stack Height (feet from ground): 80  
Discharge Style: Vertical, unobstructed  
Stack Opening (inches in diameter): 34  
Exhaust Temperature (°F): 190  
Exhaust Flowrate (scfm): 10,410  
Authority for Requirement: LCPH ATI 4931 / PTO 45023R2

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

**Monitoring Requirements**

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

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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## **Emission Point ID Number: 105**

### Associated Equipment

Associated Emission Unit ID Numbers: EU105  
Emissions Control Equipment ID Number: CE105  
Emissions Control Equipment Description: Fabric Filter

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Emission Unit vented through this Emission Point: EU105  
Emission Unit Description: Product Receiver  
Raw Material/Fuel: Dry Ingredients  
Rated Capacity: 17.5 ton/hr

## **Applicable Requirements**

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

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

Pollutant: Opacity  
Emission Limit(s): 20%  
Authority for Requirement: LCPH ATI 6228 / PTO 6006  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 0.14 lb/hr  
Authority for Requirement: LCPH ATI 6228 / PTO 6006

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/scf, 0.14 lb/hr  
Authority for Requirement: LCPH ATI 6228 / PTO 6006  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

### **Operational Limits & Requirements**

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

#### **Control Device:**

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

Authority for Requirement: LCPH ATI 6228 / PTO 6006

**Operating Limits:**

- A. The differential pressure measured across the baghouse, CE 105, shall be maintained between 0.1 inches of water and 8 inches of water column with the exception of unit startup.
- B. The control equipment on this unit shall be maintained according to the manufacturer's specification and good operating practices.

**Operating Condition Monitoring and Recordkeeping:**

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

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. Monitor and record the differential pressure on the baghouse on a weekly basis while the control equipment and emission unit are in operation.
- C. Monitor and record any maintenance and repair completed on the control equipment.

Authority for Requirement: LCPH ATI 6228 / PTO 6006

**Emission Point Characteristics**

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

Stack Height (feet from ground): 64

Discharge Style: Vertical, unobstructed

Stack Opening (inches in diameter): 4

Exhaust Temperature (°F): 105

Exhaust Flowrate (scfm): 1683

Authority for Requirement: LCPH ATI 6228 / PTO 6006

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

**Monitoring Requirements**

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

**Opacity Monitoring:**

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as

possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 107****Associated Equipment**

Associated Emission Unit ID Numbers: EU107  
Emissions Control Equipment ID Number: CE107  
Emissions Control Equipment Description: Scrubber

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Emission Unit vented through this Emission Point: EU107  
Emission Unit Description: Shaper  
Raw Material/Fuel: Wet Dough  
Rated Capacity: 3.60 ton/hr

## Applicable Requirements

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

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

Pollutant: Opacity  
Emission Limit(s): 20%  
Authority for Requirement: LCPH 4444 / PTO 4664R1  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 1.11 lb/hr  
Authority for Requirement: LCPH ATI 4444 / PTO 4664R1

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/scf, 1.11 lb/hr  
Authority for Requirement: LCPH ATI 4444 / PTO 4664R1  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

**Operational Limits & Requirements**

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

**Control Device:**

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

Authority for Requirement: LCPH ATI 4444 / PTO 4664R1

**Operating Limits:**

- A. Water flow to the scrubber unit shall be maintained at a minimum of 12 gallons per minute at all times while the unit is in operation.
- B. The control equipment shall be maintained according to the manufacturer's specification and/or good operating practices.

Authority for Requirement: LCPH ATI 4444 / PTO 4664R1

**Operating Condition Monitoring and Recordkeeping:**

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

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. Record the scrubber water flow rates on a daily basis.
- C. Record all maintenance and repair completed on the control device.

**Note:** *The operation of an audible alarm system for the scrubber unit may be operated in lieu of daily logging of the water flow rate to the scrubber unit provided that the low level alarm set point is at least 12 gallons per minute.*

Authority for Requirement: LCPH ATI 4444 / PTO 4664R1

**Emission Point Characteristics**

Stack Height (feet from ground): 94

Discharge Style: Vertical, unobstructed

Stack Opening (inches in diameter): 24

Exhaust Temperature (°F): 150

Exhaust Flowrate(scfm): 6516

Authority for Requirement: LCPH ATI 4444 / PTO 4664R1

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

**Monitoring Requirements**

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

**Opacity Monitoring:**

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity

shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 108**

Associated Equipment

Associated Emission Unit ID Numbers: EU108  
Emissions Control Equipment ID Number: CE108  
Emissions Control Equipment Description: Scrubber

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Emission Unit vented through this Emission Point: EU108  
Emission Unit Description: Shaper  
Raw Material/Fuel: Wet Dough  
Rated Capacity: 3.60 ton/hr

### Applicable Requirements

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

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

Pollutant: Opacity  
Emission Limit(s): 20%  
Authority for Requirement: LCPH 4477 / PTO 4756R1  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 1.06 lb/hr  
Authority for Requirement: LCPH ATI 4477 / PTO 4756R1

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/scf, 1.06 lb/hr  
Authority for Requirement: LCPH ATI 4477 / PTO 4756R1  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

**Operational Limits & Requirements**

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

**Control Device:**

A scrubber shall be used to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Record keeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.  
Authority for Requirement: LCPH ATI 4477 / PTO 4756R1

**Operating Limits:**

- A. Water flow to the scrubber unit shall be maintained at a minimum of 11.7 gallons per minute at all times while the unit is in operation.
- B. Recycled permeate water turbidity readings over 10 NTU shall require the owner/operator to promptly investigate the cause of elevated turbidity and take corrective action. The turbidity of the recycled permeate water must be taken prior to the addition of city makeup water in the permeate storage tank.
- C. The following emission points with scrubber control shall not discharge scrubber water into the recycled permeate water: EP 102, 103, 125, 130, 148, 161, 163, 169, 174, 175, 176. The scrubber water from these sources shall be discharged into the city sewer.
- D. The control equipment shall be maintained according to the manufacturer’s specification and/or good operating practices.

Authority for Requirement: LCPH ATI 4477 / PTO 4756R1

**Operating Condition Monitoring and Recordkeeping:**

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

- A. The owner or operator shall monitor and record ‘no visible emissions’ observations on a weekly basis. An exceedance of ‘no visible emissions’ will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. Monitor and record the turbidity of the permeate water on a weekly basis.
- C. Record any corrective action or maintenance complete to lower turbidity levels.
- D. Record the scrubber water flow rates on a daily basis.
- E. Record all maintenance and repair completed on the control device.

*Note: The operation of an audible alarm system for the scrubber unit may be operated in lieu of daily logging of the water flow rate to the scrubber unit provided that the low level alarm set point is at least 11.7 gallons per minute.*

Authority for Requirement: LCPH ATI 4477 / PTO 4756R1

**Emission Point Characteristics**

Stack Height (feet from ground): 95

Discharge Style: Vertical, Unobstructed

Stack Opening (inches in diameter): 24

Exhaust Temperature (°F): 150

Exhaust Flowrate (scfm): 6200

Authority for Requirement: LCPH ATI 4477 / PTO 4756R1

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

emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**Monitoring Requirements**

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

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: 109**

### Associated Equipment

Associated Emission Unit ID Numbers: EU109  
Emissions Control Equipment ID Number: CE109  
Emissions Control Equipment Description: Scrubber

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Emission Unit vented through this Emission Point: EU109  
Emission Unit Description: Shaper  
Raw Material/Fuel: Wet Dough  
Rated Capacity: 3.6 ton/hr

## **Applicable Requirements**

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

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

Pollutant: Opacity  
Emission Limit(s): 20%  
Authority for Requirement: LCPH ATI 4544 / PTO 4755R1  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 1.06 lb/hr  
Authority for Requirement: LCPH ATI 4544 / PTO 4755R1

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/scf, 1.06 lb/hr  
Authority for Requirement: LCPH ATI 4544 / PTO 4755R1  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

### **Operational Limits & Requirements**

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

#### **Control Device:**

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

Authority for Requirement: LCPH ATI 4544 / PTO 4755R1

#### **Operating Limits:**

- A. Water flow rate to the scrubber unit shall be maintained at minimum of 11.7 gallons per minute at all times while the unit is in operation.
- B. Recycled permeate water turbidity readings over 10 NTU shall require the owner/operator to promptly investigate the cause of elevated turbidity and take corrective action. The turbidity of the recycled permeate water must be taken prior to the addition of city makeup water in the permeate storage tank.
- C. The following emission points with scrubber control shall not discharge scrubber water into the recycled permeate water: EP 102, 103, 125, 130, 148, 161, 163, 169, 174, 175, 176. The scrubber water from these sources shall be discharged into the city sewer.
- D. The control equipment shall be maintained according to the manufacturer's specification and/or good operating practices.

Authority for Requirement: LCPH ATI 4544 / PTO 4755R1

**Operating Condition Monitoring and Recordkeeping:**

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

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. Monitor and record the turbidity of the permeate water on a weekly basis.
- C. Record any corrective action or maintenance completed to lower turbidity levels.
- D. Record the scrubber water flow rates on a daily basis.
- E. Record all maintenance and repair completed on the control device.

*Note: The operation of an audible alarm system for the scrubber unit may be operated in lieu of daily logging of the water flow rate to the scrubber unit provided that the low level alarm set point is at least 11.7 gallons per minute.*

Authority for Requirement: LCPH ATI 4544 / PTO 4755R1

**Emission Point Characteristics**

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

Stack Height (ft, from ground): 96  
 Discharge Style: Vertical, unobstructed  
 Stack Opening (inches, diameter): 24  
 Exhaust Temperature (°F): 150  
 Exhaust Flowrate (scfm): 6200

Authority for Requirement: LCPH ATI 4544 / PTO 4755R1

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

*emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.*

**Monitoring Requirements**

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

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: 125**

### Associated Equipment

Associated Emission Unit ID Numbers: EU125  
Emissions Control Equipment ID Number: CE125  
Emissions Control Equipment Description: Wet Scrubber

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Emission Unit vented through this Emission Point: EU125  
Emission Unit Description: Slurry  
Raw Material/Fuel: Sweeteners  
Rated Capacity: 6.66 ton/hr

## **Applicable Requirements**

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

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

Pollutant: Opacity  
Emission Limit(s): 20%  
Authority for Requirement: LCPH 4329 / PTO 4523R1  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 0.12 lb/hr  
Authority for Requirement: LCPH ATI 4329 / PTO 4523R1

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/dscf, 0.12 lb/hr  
Authority for Requirement: LCPH ATI 4329 / PTO 4523R1  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

### **Operational Limits & Requirements**

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

#### **Control Device:**

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

Authority for Requirement: LCPH ATI 4329 / PTO 4523R1

#### **Operating Limits:**

- A. Water flow rate to the scrubber unit shall be maintained at a minimum of 3 gallons per minute at all times while the unit is in operation.
- B. Recycled permeate water turbidity readings over 10 nTU shall require the owner/operator to promptly investigate the cause of elevated turbidity and take corrective action. The turbidity of the recycled permeate water must be taken prior to the addition of city makeup water in the permeate storage tank.
- C. The following emission points with scrubber control shall not discharge scrubber water into the recycled permeate water: eP 102, 103, 125, 130, 148, 161, 163, 169, 174, 175, 176. The scrubber water from these sources shall be discharge into the city sewer.
- D. The control equipment shall be maintained according to the manufacturer's specification and/or good operating practices.

Authority for Requirement: LCPH ATI 4329 / PTO 4523R1

**Operating Condition Monitoring and Recordkeeping:**

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

- A. Monitor and record the scrubber water flow rate on a daily basis.
- B. Monitor and record all maintenance and repair completed on the control device.
- C. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance and record the corrective action taken.

**Note:** *The operation of an audible low water flow alarm system for the scrubber unit can be operated in lieu of daily logging of the water flow rate to the scrubber unit provided that the low level alarm set point is at least 3 gallons per minute.*

Authority for Requirement: LCPH ATI 4329 / PTO 4523R1

**Emission Point Characteristics**

Stack Height (feet from ground): 72  
 Discharge Style: Vertical, upobstructed  
 Stack Opening (inches in diameter): 16  
 Exhaust Temperature (°F): 90  
 Exhaust Flowrate(acfm): 1,500

Authority for Requirement: LCPH ATI 4329 / PTO 4523R1

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

**Monitoring Requirements**

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

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 130**

Associated Equipment

Associated Emission Unit ID Numbers: EU130  
Emissions Control Equipment ID Number: CE130  
Emissions Control Equipment Description: Wet Scrubber

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Emission Unit vented through this Emission Point: EU130  
Emission Unit Description: Dryer  
Raw Material/Fuel: Finished Cereal  
Rated Capacity: 10.3 ton/hr

## Applicable Requirements

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

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

Pollutant: Opacity  
Emission Limit(s): 20%  
Authority for Requirement: LCPH ATI 5719 / PTO 5961R1  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 1.04 lb/hr  
Authority for Requirement: LCPH ATI 5719 / PTO 5961R1

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/dscf, 1.04 lb/hr  
Authority for Requirement: LCPH ATI 5719 / PTO 5961R1  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

**Operational Limits & Requirements:**

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

**Control Device**

A scrubber shall be installed to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.  
Authority for Requirement: LCPH ATI 5719 / PTO 5961R1

**Operating Limits:**

- A. Water flow rate to the scrubber unit in Zone #1 (hot) shall be maintained at a minimum of 4 gallons per minute at all times while the unit is in operation.
- B. Water flow rate to the scrubber unit in Zone #2 (cold) shall be maintained at a minimum of 7 gallons per minute at all times while the unit is in operation.
- C. Recycled permeate water turbidity readings over 10 NTU shall require the owner/operator to promptly investigate the cause of elevated turbidity and take corrective action. The turbidity of the recycled permeate water must be taken prior to the addition of city makeup water in the permeate storage tank.
- D. The following emission points with scrubber control shall not discharge scrubber water into the recycled permeate water: EP 102, 103, 125, 130, 148, 161, 163, 169, 174, 175, 176. The scrubber water from these sources shall be discharged into the city sewer.
- E. The control equipment shall be maintained according to the manufacturer's specifications and good operating practices.

Authority for Requirement: LCPH ATI 5719 / PTO 5961R1

**Operating Condition Monitoring and Recordkeeping:**

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

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. Monitor and record the turbidity of the permeate water on a weekly basis.
- C. Monitor and record the scrubber water flow rate in Zone #1 (hot) and Zone #2 (cold) on a daily basis.
- D. Record all maintenance and repair completed on the control device.

*Note: The operation of an audible low water flow alarm system for the scrubber unit can be operated in lieu of daily logging of the water flow rate to the scrubber unit provided that the low level alarm set point is at least 4 gallons per minute for Zone #1 (hot) and 7 gallons per minute for Zone #2 (cold).*

Authority for Requirement: LCPH ATI 5719 / PTO 5961R1

**Emission Point Characteristics**

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

Stack Height (feet, from ground): 87

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): 30

Exhaust Temperature (°F): 105

Exhaust Flowrate (scfm): 15,209

Authority for Requirement: LCPH ATI 5719 / PTO 5961R1

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

**Monitoring Requirements**

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

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 132, 150, 151, 164, 172, 178**

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity
132	132A	Preheater	Natural Gas	1.5 MMBtu/hr
	132B	Preheater	Propane	
150	150A	Preheater	Natural Gas	1.5 MMBtu/hr
	150B	Preheater	Propane	
151	151A	Preheater	Natural Gas	1.5 MMBtu/hr
	151B	Preheater	Propane	
164	164A	Preheater	Natural Gas	1.5 MMBtu/hr
	164B	Preheater	Propane	
172	172A	Heater	Natural Gas	1.5 MMBtu/hr
	172B	Heater	Propane	
178	178A	Water Heater	Natural Gas	18 MMBtu/hr
	178B	Water Heater	Propane	

**Applicable Requirements**

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

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

**Emission Limits.**

EP	Pollutant	Emission Limit(s)	Authority for Requirement (ATI/PTO)
150, 151, 164, 172, 178	PM	0.6 lbs/MMBtu	5818/5566R1 6179/5940 5819/5567R1 5867/5776R1 5979/5781
	SO <sub>2</sub>	1.5 lbs/MMBtu	
132, 150, 151, 164, 172, 178	Opacity	20% <sup>1</sup>	6178/5939 5818/5566R1 6179/5940 5819/5567R1 5867/5776R1 5979/5781 LCO 10.7 LCO 10.8(2) "b" LCO 10.12(1) "b" LCO 10.12(2)
	SO <sub>2</sub>	500 ppmv	
	NO <sub>x</sub>	235 tpy Facility NO <sub>x</sub> Bubble Limit	
132	PM/PM10	0.007 lbs/hr	6178 / 5939

151			6179/5940
132 151	PM	0.1 gr/scf	6178/5939 6179/5940
150 164	PM/PM10	0.05 lbs/hr	5818/5566R1 5819/5567R1
150 164	SO2	0.01 lbs/hr	5818/5566R1 5819 /5567R1
172	PM/PM10	0.01 lbs/hr	5867/5776R1
178	PM/PM10	0.79 lbs/hr	5979/5781

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

**Operational Limits & Requirements**

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

**Operating Limits:**

<u>EP</u>	<u>Limit</u>	<u>Authority for Requirement (ATI/PTO)</u>
132, 150, 151, 164, 172, 178	Refer to Attachment A, Facility NOx Bubble Permit Requirements	6178/5939 5818/5566R1 6179/5940 5819/5567R1 5867/5776R1 5979/5781

**Operating Condition Monitoring and Recordkeeping:**

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

<u>EP</u>	<u>Requirement</u>	<u>Authority for Requirement (ATI/PTO)</u>
132, 150, 151, 164, 172, 178	Refer to Attachment A, Facility NOx Bubble Permit Requirements	6178/5939 5818/5566R1 6179/5940 5819/5567R1 5867/5776R1 5979/5781
132, 150, 151, 164, 172, 178	The owner or operator shall monitor and record ‘no visible emissions’ observations on a weekly basis. An exceedance of ‘no visible emissions’ will require the owner/operator to promptly investigate the emission unit, make	6178/5939 5818/5566R1 6179/5940 5819/5567R1 5867/5776R1

	corrections to operations or equipment associated with the exceedance, and record the corrective action taken.	5979/5781
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**Reporting Requirements:**

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

<u>EP</u>	<u>Requirement</u>	<u>Authority for Requirement (ATI/PTO)</u>
132, 150, 151, 164, 172, 178	Refer to Attachment A, Facility NOx Bubble Permit Requirements	6178/5939 5818/5566R1 6179/5940 5819/5567R1 5867/5776R1 5979/5781

**Emission Point Characteristics**

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

<b>EP</b>	<b>LCPH ATI/PTO</b>	<b>Stack Height (feet, above ground)</b>	<b>Discharge Style</b>	<b>Stack Opening (inches, dia.)</b>	<b>Exhaust Temperature (°F)</b>	<b>Exhaust Flowrate (scfm)</b>
132	6178/5939	83	Vertical, unobstructed	10	450	99
150	5818/5566R1	84	Vertical, unobstructed	8	450	99
151	6179/5940	83	Vertical, unobstructed	10	450	99
164	5819/5567R1	84	Vertical, unobstructed	8	450	99
172	5867/5776R1	72	Vertical, unobstructed	12	800	2524
178	5979/5781	62.5	Vertical, unobstructed	36	160	3932

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

**Opacity Monitoring:**

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling

operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 133**

Associated Equipment

Associated Emission Unit ID Numbers: EU133

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Emission Unit vented through this Emission Point: EU133

Emission Unit Description: Cooker

Raw Material/Fuel: Wet Dough

Rated Capacity: 7.2 ton/hr

## Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 20%<sup>1</sup>

Authority for Requirement: LCPH ATI 5720 / PTO 5962  
LCO 10.7

Pollutant: PM-10

Emission Limit(s): 0.80 lb/hr

Authority for Requirement: LCPH ATI 5720 / PTO 5962

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/scf, 0.80 lb/hr

Authority for Requirement: LCPH ATI 5720 / PTO 5962  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

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

**Operational Limits & Requirements**

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

**Operating Condition Monitoring and Recordkeeping:**

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

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

Authority for Requirement: LCPH ATI 5720 / PTO 5962

**Emission Point Characteristics**

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

Stack Height (feet, from ground): 97

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): 16

Exhaust Temperature (°F): 121

Exhaust Flowrate (scfm): 5230

Authority for Requirement: LCPH ATI 5720 / PTO 5962

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

**Monitoring Requirements**

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

**Stack Testing:**

Pollutant – Particulate Matter (PM)<sup>1,2</sup>

1st Stack Test to be Completed by – within 60 days after achieving maximum production rate and no later than one hundred eight (180) days after the initial startup date of the equipment.

Test Method – Iowa Compliance Sampling Manual

Authority for Requirement – LCPH ATI 5720 / PTO 5962

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

<sup>1</sup> In lieu of testing both EP 133 and EP 136, Cookers, the facility may choose to perform a source test on one of the two emission points, the results of which shall be considered representative of both units. The facility may choose to perform one stack test to account for both PM and PM10 emissions to satisfy the testing requirements for both pollutants. If the results are within 90% of the emission limit, then a second source test will be required for the emission point that had not been tested. If the test results show a violation of the applicable emission limit(s), then the

facility will be considered to be out of compliance for both pollutants and/or both emission points 133 and 136. In accordance with LCCO 10.18, the Department may require additional source testing for either of the emission points to determine compliance.

<sup>2</sup>Testing completed on EP 133 on July 24, 2012.

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 134**

Associated Equipment

Associated Emission Unit ID Numbers: EU134  
Emissions Control Equipment ID Number: CE134  
Emissions Control Equipment Description: Wet Scrubber

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Emission Unit vented through this Emission Point: EU134  
Emission Unit Description: Dryer  
Raw Material/Fuel: Wet Dough  
Rated Capacity: 7.2 ton/hr

## Applicable Requirements

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

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

Pollutant: Opacity  
Emission Limit(s): 20%<sup>1</sup>  
Authority for Requirement: LCPH ATI 5721 / PTO 5963R1  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 0.63 lb/hr  
Authority for Requirement: LCPH ATI 5721 / PTO 5963R1

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/dscf, 0.63 lb/hr  
Authority for Requirement: LCPH ATI 5721 / PTO 5963R1  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

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

**Operational Limits & Requirements**

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

**Control Device:**

A wet scrubber shall be used to control particulate emissions. The control equipment shall be maintained properly and operated at all times while the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in

"Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 5721 / PTO 5963R1

**Operating Limits:**

- A. Water flow rate to the scrubber unit shall be maintained at a minimum of 4 gallons per minute at all times while the unit is in operation.
- B. Recycled permeate water turbidity readings over 10 NTU shall require the owner/operator to promptly investigate the cause of elevated turbidity and take corrective action. The turbidity of the recycled permeate water must be taken prior to the addition of city makeup water in the permeate storage tank.
- C. The following emission points with scrubber control shall not discharge scrubber water into the recycled permeate water: EP 102, 103, 125, 130, 148, 161, 163, 169, 174, 176. The scrubber water from these sources shall be discharged into the city sewer.
- D. The control equipment shall be maintained according to the manufacturer's specifications and good operating practices.

Authority for Requirement: LCPH ATI 5721 / PTO 5963R1

**Operating Condition Monitoring and Recordkeeping:**

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

- A. Monitor and record the scrubber water flow rate on a daily basis.
- B. Monitor and record the turbidity of the permeate water on a weekly basis.
- C. Record any corrective action or maintenance completed to lower turbidity levels.
- D. Monitor and record any maintenance and repair completed to the scrubber.
- E. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance and record corrective action taken.

*Note: The operation of an audible alarm low water flow alarm system for the scrubber unit may be operated in lieu of daily logging of the water flow rate to the scrubber unit provided that the low level alarm set point is at least 4 gallons per minute.*

Authority for Requirement: LCPH ATI 5721 / PTO 5963R1

**Emission Point Characteristics**

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

Stack Height (feet, from ground): 67

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): 36

Exhaust Temperature (°F): 150

Exhaust Flowrate (scfm): 7348

Authority for Requirement: LCPH ATI 5721 / PTO 5963R1

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

**Monitoring Requirements**

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

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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## **Emission Point ID Number: 135**

### Associated Equipment

Associated Emission Unit ID Numbers: EU135  
Emissions Control Equipment ID Number: CE135  
Emissions Control Equipment Description: Scrubber

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Emission Unit vented through this Emission Point: EU135  
Emission Unit Description: Shaper  
Raw Material/Fuel: Wet Dough  
Rated Capacity: 3.6 ton/hr

## **Applicable Requirements**

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

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

Pollutant: Opacity  
Emission Limit(s): 20%  
Authority for Requirement: LCPH ATI 4546 / PTO 4757R1  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 1.06 lb/hr  
Authority for Requirement: LCPH ATI 4546 / PTO 4757R1

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/dscf, 1.06 lb/hr  
Authority for Requirement: LCPH ATI 4546 / PTO 4757R1  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

### **Operational Limits & Requirements**

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

#### **Control Device:**

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

Authority for Requirement: LCPH ATI 4546 / PTO 4757R1

**Operating Limits:**

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

- A. Water flow rate to the scrubber shall be maintained at a minimum of 11.7 gallons per minute at all times while the unit is in operations.
- B. Recycled permeate water turbidity readings over 10 NTU shall require the owner/operator to promptly investigate the cause of elevated turbidity and take corrective action. The turbidity of the recycled permeate water must be taken prior to the addition of city makeup water in the permeate storage tank.
- C. The following emission points with scrubber control shall not discharge scrubber water into the scrubber water into the recycled permeate water: EP 102, 103, 125, 130, 148, 161, 163, 169, 174, 175, 176. The scrubber water from these sources shall be discharged into the city sewer.
- D. The control equipment shall be maintained according to the manufacturer's specification and/or good operating practices.

Authority for Requirement: LCPH ATI 4546 / PTO 4757R1

**Operating Condition Monitoring and Recordkeeping:**

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

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. Monitor and record the turbidity of the permeate water on a weekly basis.
- C. Record any corrective action or maintenance completed to lower turbidity levels.
- D. Monitor and record the scrubber water flow on a daily basis.
- E. Record all maintenance and repair completed on the control device.

*Note: The operation of an audible alarm system for the scrubber unit may be operated in lieu of daily logging of the water flow rate to the scrubber unit provided that the low level alarm set point is at least 11.7 gallons per minute.*

Authority for Requirement: LCPH ATI 4546 / PTO 4757R1

**Emission Point Characteristics**

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

Stack Height (ft, from ground): 96

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): 24

Exhaust Temperature (°F): 150

Exhaust Flowrate (scfm): 6200

Authority for Requirement: LCPH ATI 4546 / PTO 4757R1

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

**Monitoring Requirements**

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

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 136**

Associated Equipment

Associated Emission Unit ID Numbers: EU136

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Emission Unit vented through this Emission Point: EU136

Emission Unit Description: Cooker

Raw Material/Fuel: Wet Dough

Rated Capacity: 7.2 ton/hr

## Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 20%<sup>1</sup>

Authority for Requirement: LCPH ATI 5722 / PTO 5964  
LCO 10.7

Pollutant: PM-10

Emission Limit(s): 0.8 lb/hr

Authority for Requirement: LCPH ATI 5722 / PTO 5964

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf, 0.80 lb/hr

Authority for Requirement: LCPH ATI 5722 / PTO 5964  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

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

**Operational Limits & Requirements**

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

**Operating Condition Monitoring and Recordkeeping:**

If not specified elsewhere, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality

Division and other federal or state air pollution regulatory agencies and their authorized representatives.

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

Authority for Requirement: LCPH ATI 5722 / PTO 5964

### **Emission Point Characteristics**

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

Stack Height (feet, from ground): 97

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): 16

Exhaust Temperature (°F): 121

Exhaust Flowrate (scfm): 5230

Authority for Requirement: LCPH ATI 5722 / PTO 5964

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

### **Monitoring Requirements**

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

#### **Stack Testing:**

Pollutant – Particulate Matter (PM)<sup>1,2</sup>

1<sup>st</sup> Stack Test to be Completed by – within 60 days after achieving maximum production rate and no later than one hundred eight (180) days after the initial startup date of the equipment.

Test Method – Iowa Compliance Sampling Manual

Authority for Requirement – LCPH ATI 5722 / PTO 5964

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

<sup>1</sup> In lieu of testing both EP 133 and EP 136, Cookers, the facility may choose to perform a source test on one of the two emission points, the results of which shall be considered representative of both units. The facility may choose to perform one stack test to account for both PM and PM10 emissions to satisfy the testing requirements for both pollutants. If the results are within 90% of the emission limit, then a second source test will be required for the emission point that had not

been tested. If the test results show a violation of the applicable emission limit(s), then the facility will be considered to be out of compliance for both pollutants and/or both emission points 133 and 136. In accordance with LCCO 10.18, the Department may require additional source testing for either of the emission points to determine compliance.

<sup>2</sup> Testing completed on EP 133 on July 24, 2012.

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 137**

Associated Equipment

Associated Emission Unit ID Numbers: EU137  
Emissions Control Equipment ID Number: CE137  
Emissions Control Equipment Description: Wet Scrubber

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Emission Unit vented through this Emission Point: EU137  
Emission Unit Description: Dryer  
Raw Material/Fuel: Wet Dough  
Rated Capacity: 7.2 ton/hr

## Applicable Requirements

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

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

Pollutant: Opacity  
Emission Limit(s): 20%  
Authority for Requirement: LCPH ATI 5700 / PTO 5965R1  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 0.60 lb/hr  
Authority for Requirement: LCPH ATI 5700 / PTO 5965R1

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/dscf, 0.60 lb/hr  
Authority for Requirement: LCPH ATI 5700 / PTO 5965R1  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

**Operational Limits & Requirements**

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

**Control Device:**

A wet scrubber shall be used to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times while the air pollution source is in operation. All probes, monitors, and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.  
Authority for Requirement: LCPH ATI 5700 / PTO 5965R1

**Operating Limits:**

- A. Water flow rate to the scrubber unit shall be maintained at a minimum of 8 gallon per minute at all times while the unit is in operation.
- B. Recycled permeate water turbidity readings over 10 NTU shall require the owner/operator to promptly investigate the cause of elevated turbidity and take corrective action. The turbidity of the recycled permeate water must be taken prior to the addition of city makeup water in the permeate storage tank.
- C. The following emission points with scrubber control shall not discharge scrubber water into the recycled permeate water: EP 102, 103, 125, 130, 148, 161, 163, 169, 174, 175, 176. The scrubber water from these sources shall be discharged into the city sewer.
- D. The control equipment shall be maintained according to the manufacturer's specification and/or good operating practices.

Authority for Requirement: LCPH ATI 5700 / PTO 5965R1

**Operating Condition Monitoring and Recordkeeping:**

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

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. Monitor and record the turbidity of the permeate water on a weekly basis.
- C. Record any corrective action or maintenance completed to lower turbidity levels.
- D. Monitor and record scrubber water flow rates on a daily basis.
- E. Monitor and record all maintenance and repair completed on the control device.

*Note: The operation of an audible low water flow alarm system for the scrubber unit may be operated in lieu of daily logging of the water flow rate to the scrubber unit provided that the low level alarm set point is at least 8 gallons per minute.*

Authority for Requirement: LCPH ATI 5700 / PTO 5965R1

**Emission Point Characteristics**

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

Stack Height (feet, from ground): 97

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): 42

Exhaust Temperature (°F): 150

Exhaust Flowrate (scfm): 9114

Authority for Requirement: LCPH ATI 5700 / PTO 5965R1

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

emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**Monitoring Requirements**

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

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 138**

Associated Equipment

Associated Emission Unit ID Numbers: EU138  
Emissions Control Equipment ID Number: CE138  
Emissions Control Equipment Description: Wet Scrubber

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Emission Unit vented through this Emission Point: EU138A, 138B, 138C, 138D  
Emission Unit Description: Dryer  
Raw Material/Fuel: Wet Dough  
Rated Capacity: 14.40 ton/hr

## Applicable Requirements

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

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

Pollutant: Opacity  
Emission Limit(s): 20%<sup>1</sup>  
Authority for Requirement: LCPH ATI 5947 / PTO 5683R1  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 0.51 lb/hr  
Authority for Requirement: LCPH ATI 5947 / PTO 5683R1

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/scf, 0.51 lb/hr  
Authority for Requirement: LCPH ATI 5947 / PTO 5683R1  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

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

**Operational Limits & Requirements**

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

**Control Device:**

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

Authority for Requirement: LCPH ATI 5947 / PTO 5683R1

**Operating Limits:**

- A. Water flow rate to the scrubber unit shall be maintained at a minimum of 5.0 gallon per minute at all times while the unit is in operation.
- B. Recycled permeate water turbidity readings over 10 NTU shall require the owner/operator to promptly investigate the cause of elevated turbidity and take corrective action. The turbidity of the recycled permeate water must be taken prior to the addition of city makeup water in the permeate storage tank.
- C. The following points with scrubber control shall not discharge scrubber water into the recycled permeate water: EP 102, 103, 125, 130, 148, 161, 163, 169, 174, 175, 176. The scrubber water from these sources shall be discharged into the city sewer.
- D. The control equipment shall be maintained according to the manufacturer's specifications and good operating practices.

Authority for Requirement: LCPH ATI 5947 / PTO 5683R1

**Operating Condition Monitoring and Recordkeeping:**

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

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. Monitor and record the turbidity of the permeate water on a weekly basis.
- C. Record any corrective action or maintenance completed to lower turbidity levels.
- D. Monitor and record the scrubber water flow rate on a daily basis.
- E. Monitor and record any maintenance and repair completed to the scrubber.

*Note: The operation of an audible low water flow alarm system for the scrubber unit may be operated in lieu of daily logging of the water flow rate to the scrubber unit provided that the low level alarm set point is at least 5 gallons per minute.*

Authority for Requirement: LCPH ATI 5947 / PTO 5683R1

**Emission Point Characteristics**

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

Stack Height (feet, from ground): 97

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): 23  
Exhaust Temperature (°F): 150  
Exhaust Flowrate (acfm): 3000  
Authority for Requirement: LCPH ATI 5947 / PTO 5683R1

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

**Monitoring Requirements**

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

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 139**

Associated Equipment

Associated Emission Unit ID Numbers: EU139A, EU139B

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Emission Unit vented through this Emission Point: EU139A, EU139B

Emission Unit Description: Gas Fired Preheater

Raw Material/Fuel: Natural Gas, Propane

Rated Capacity: 0.80 MMBtu/hr

## Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 20%

Authority for Requirement: LCPH ATI 2317 / PTO 4601R2  
LCO 10.7

Pollutant: PM-10

Emission Limit(s): 0.007 lb/hr,

Authority for Requirement: LCPH ATI 2317 / PTO 4601R2

Pollutant: Particulate Matter

Emission Limit(s): 0.007 lb/hr, 0.6 lbs/MMBtu

Authority for Requirement: LCPH ATI 2317 / PTO 4601R2  
567 IAC 23.3(2)"b"  
LCO 10.8(2)"b"

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

Emission Limit(s): 0.0007 lb/hr 1.5 lbs/MMBTU, 500 ppmv

Authority for Requirement: LCPH ATI 2317 / PTO 4601R2  
567 IAC 23.3(3)"e"  
LCO 10.12(1)"b"  
LCO 10.12(2)

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

Emission Limit(s): 235 tpy

Authority for Requirement: LCPH ATI 2317 / PTO 4601R2  
See Plant-Wide Conditions for Plant-Wide NO<sub>x</sub> limit.

### **Operational Limits & Requirements**

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

#### **Operating Limits:**

A. Refer to Attachment A, Facility Bubble Permit Requirements  
Authority for Requirement: LCPH ATI 2317 / PTO 4601R2

#### **Operating Condition Monitoring and Recordkeeping:**

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

A. Refer to Attachment A, Facility Bubble Permit Requirements  
B. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.  
Authority for Requirement: LCPH ATI 2317 / PTO 4601R2

#### **Reporting Requirements**

A. Refer to Attachment A, Facility Bubble Permit Requirements  
Authority for Requirement: LCPH ATI 2317 / PTO 4601R2

See Plant-Wide Conditions section for Facility Operating Limits, Record keeping Requirements and Reporting Requirements that apply to this emission point.

### **Emission Point Characteristics**

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

Stack Height (ft, from ground): 98  
Discharge Style: Vertical, Unobstructed  
Stack Opening (inches, diameter): 10  
Exhaust Temperature (°F): 450  
Exhaust Flowrate (scfm): 99  
Authority for Requirement: LCPH ATI 2317 / PTO 4601R2

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

### **Monitoring Requirements**

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

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 140**

Associated Equipment

Associated Emission Unit ID Numbers: EU140A, EU140B

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Emission Unit vented through this Emission Point: EU140A, EU140B

Emission Unit Description: Gas-Fired Preheater

Raw Material/Fuel: Natural Gas, Propane

Rated Capacity: 0.80 MMBtu/hr

## Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 20%

Authority for Requirement: LCPH ATI 2316 / PTO 4602R1  
LCO 10.7

Pollutant: PM-10

Emission Limit(s): 0.007 lb/hr

Authority for Requirement: LCPH ATI 2316 / PTO 4602R1

Pollutant: Particulate Matter

Emission Limit(s): 0.007 lb/hr, 0.6 lbs/MMBTU

Authority for Requirement: LCPH ATI 2316 / PTO 4602R1  
567 IAC 23.3(2)"b"  
LCO 10.8(2)"b"

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

Emission Limit(s): 0.0007 lb/hr, 1.5 lbs/MMBTU, 500 ppmv

Authority for Requirement: LCPH ATI 2316 / PTO 4602R1  
567 IAC 23.3(3)"e"  
LCO 10.12(1)"b"  
LCO 10.12(2)

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

Emission Limit(s): 235 tpy

Authority for Requirement: LCPH ATI 2316 / PTO 4602R1  
See Plant-Wide Conditions for Plant-Wide NO<sub>x</sub> limit.

### **Operational Limits & Requirements**

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

See Plant-Wide Conditions section for Facility Operating Limits, Recordkeeping Requirements and Reporting Requirements that apply to this emission point.

### **Operating Limits**

A. Refer to Attachment A, Facility Bubble Permit Requirements  
Authority for Requirement: LCPH ATI 2316 / PTO 4602R1

### **Operating Condition Monitoring and Recordkeeping**

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

- A. Refer to Attachment A, Facility Bubble Permit Requirements  
B. The owner or operator shall monitor and record ‘no visible emissions’ observation on a weekly basis. An exceedance of ‘no visible emissions’ will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

Authority for Requirement: LCPH ATI 2316 / PTO 4602R1

### **Reporting Requirements**

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

A. Refer to Attachment A, Facility Bubble Permit Requirements  
Authority for Requirement: LCPH ATI 2316 / PTO 4602R1

### **Emission Point Characteristics**

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

Stack Height (ft, from ground): 98

Discharge Style: Vertical, Obstructed

Stack Opening (inches, diameter): 10

Exhaust Temperature (°F): 450

Exhaust Flowrate (scfm): 99

Authority for Requirement: LCPH ATI 2316 / PTO 4602R1

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

**Monitoring Requirements**

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

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 141**

Associated Equipment

Associated Emission Unit ID Numbers: EU141A, EU141B

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Emission Unit vented through this Emission Point: EU141A, EU141B

Emission Unit Description: Gas-Fired Preheater

Raw Material/Fuel: Natural Gas, Propane

Rated Capacity: 0.80 MMBtu/hr

## Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 20%

Authority for Requirement: LCPH ATI 2324 / PTO 4603R2  
LCO 10.7

Pollutant: PM-10

Emission Limit(s): 0.007 lb/hr

Authority for Requirement: LCPH ATI 2324 / PTO 4603R2

Pollutant: Particulate Matter

Emission Limit(s): 0.007 lb/hr, 0.6 lbs/MMBTU

Authority for Requirement: LCPH ATI 2324 / PTO 4603R2

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

Emission Limit(s): 0.0007 lb/hr, 1.5 lbs/MMBTU, 500 ppmv,

Authority for Requirement: LCPH ATI 2324 / PTO 4603R2

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

Emission Limit(s): 235 tpy

Authority for Requirement: LCPH ATI 2324 / PTO 4603R2

See Plant-Wide Conditions for Plant-Wide NO<sub>x</sub> limit.

**Operational Limits & Requirements**

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

See Plant-Wide Conditions section for Facility Operating Limits, Record keeping Requirements and Reporting Requirements that apply to this emission point.

### **Operating Limits**

A. Refer to Attachment A, Facility Bubble Permit Requirements  
Authority for Requirement: LCPH ATI 2324 / PTO 4603R2

### **Operating Condition Monitoring and Recordkeeping**

A. Refer to Attachment A, Facility Bubble Permit Requirements  
B. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.

Authority for Requirement: LCPH ATI 2324 / PTO 4603R2

### **Emission Point Characteristics**

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

Stack Height (ft, from ground): 98

Discharge Style: Vertical, Obstructed

Stack Opening (inches, diameter): 10

Exhaust Temperature (°F): 450

Exhaust Flowrate (scfm): 99

Authority for Requirement: LCPH ATI 2324 / PTO 4603R2

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

### **Monitoring Requirements**

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

#### **Opacity Monitoring:**

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

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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## **Emission Point ID Number: 145**

### Associated Equipment

Associated Emission Unit ID Numbers: EU145  
Emissions Control Equipment ID Number: CE145  
Emissions Control Equipment Description: Wet Scrubber

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Emission Unit vented through this Emission Point: EU145  
Emission Unit Description: Shaper  
Raw Material/Fuel: Wet Dough  
Rated Capacity: 3.6 ton/hr

## **Applicable Requirements**

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

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

Pollutant: Opacity  
Emission Limit(s): 20%  
Authority for Requirement: LCPH ATI 4478 / PTO 4758R1  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 1.06 lb/hr  
Authority for Requirement: LCPH ATI 4478 / PTO 4758R1

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/dscf, 1.06 lb/hr  
Authority for Requirement: LCPH ATI 4478 / PTO 4758R1  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

### **Operational Limits & Requirements**

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

#### **Control Device:**

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

Authority for Requirement: LCPH ATI 4478 / PTO 4758R1

**Operating Limits:**

- A. Water flow to the scrubber shall be maintained at a minimum of 11.7 gallons per minute at all times.
- B. Recycled permeate water turbidity readings over 10 NTU shall require the owner/operator to promptly investigate the cause of elevated turbidity and take corrective action. The turbidity of the recycled permeate water must be taken prior to the addition of city makeup water in the permeate storage tank.
- C. The following emission points with scrubber control shall not discharge scrubber water into the recycled permeate water: EP 102, 103, 125, 130, 148, 161, 163, 169, 174, 175, 176. The scrubber water from these sources shall be discharged into the city sewer.
- D. The control equipment shall be maintained according to the manufacturer's specification and/or good operating practices.

Authority for Requirement: LCPH ATI 4478 / PTO 4758R1

**Operating Condition Monitoring and Recordkeeping:**

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

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. Monitor and record the turbidity of the permeate water on a weekly basis.
- C. Record any corrective action or maintenance completed to lower turbidity levels.
- D. Monitor and record the scrubber water flow on a daily basis.
- E. Record all maintenance and repair completed on the control device.

*Note: The operation of an audible alarm system for the scrubber unit may be operated in lieu of daily logging of the water flow rate to the scrubber unit provided that the low level alarm set point is at least 11.7 gallons per minute.*

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

Authority for Requirement: LCPH ATI 4478 / PTO 4758R1

**Emission Point Characteristics**

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

Stack Height (feet, from ground): 98

Discharge Style: Vertical, Unobstructed

Stack Opening (inches, diameter): 24

Exhaust Temperature (°F): 150

Exhaust Flowrate (scfm): 6200

Authority for Requirement: LCPH ATI 4478 / PTO 4758R1

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

**Monitoring Requirements**

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

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 146****Associated Equipment**

Associated Emission Unit ID Numbers: EU146  
Emissions Control Equipment ID Number: CE146  
Emissions Control Equipment Description: Wet Scrubber

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Emission Unit vented through this Emission Point: EU146  
Emission Unit Description: Shaper  
Raw Material/Fuel: Wet Dough  
Rated Capacity: 3.6 ton/hr

## Applicable Requirements

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

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

Pollutant: Opacity  
Emission Limit(s): 20%  
Authority for Requirement: LCPH ATI 4638 / PTO 4759R2  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 1.06 lb/hr  
Authority for Requirement: LCPH ATI 4638 / PTO 4759R2

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/dscf, 1.06 lb/hr  
Authority for Requirement: LCPH ATI 4638 / PTO 4759R2  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

**Operational Limits & Requirements**

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

**Control Device:**

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

Authority for Requirement: LCPH ATI 4638 / PTO 4759R2

**Operating Limits:**

- A. Water flow to the scrubber shall be maintained at a minimum of 11.7 gallons per minute at all times while the unit is in operation.
- B. Recycled permeate water turbidity readings over 10 NTU shall require the owner/operator to promptly investigate the cause of elevated turbidity and take corrective action. The turbidity of the recycled permeate water must be taken prior to the addition of city makeup water in the permeate storage tank.
- C. The following emission points with scrubber control shall not discharge scrubber water into the recycled permeate water: EP 102, 103, 125, 130, 148, 161, 163, 169, 174, 175, 176. The scrubber water from these sources shall be discharged into the city sewer.
- D. The control equipment shall be maintained according to the manufacturer's specifications and good operating practices.

Authority for Requirement: LCPH ATI 4638 / PTO4759R2

**Operating Condition Monitoring and Recordkeeping:**

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

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. Monitor and record the turbidity of the permeate water on a weekly basis.
- C. Record any corrective action or maintenance completed to lower turbidity levels.
- D. Monitor and record scrubber water flow rates on a daily basis.
- E. Monitor and record all maintenance and repair completed on the control device.

*Note: The operation of an audible alarm system for the scrubber unit may be operated in lieu of daily logging of the water flow rate to the scrubber unit provided that the low level alarm set point is at least 11.7 gallons per minute.*

Authority for Requirement: LCPH ATI 4638 / PTO 4759R2

**Emission Point Characteristics**

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

Stack Height (ft, from ground): 98

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): 24

Exhaust Temperature (°F): 150

Exhaust Flowrate (scfm): 6200

Authority for Requirement: LCPH ATI 4638 / PTO 4759R2

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

**Monitoring Requirements**

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

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 147**

Associated Equipment

Associated Emission Unit ID Numbers: EU147  
Emissions Control Equipment ID Number: CE147  
Emissions Control Equipment Description: Wet Scrubber

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Emission Unit vented through this Emission Point: EU147  
Emission Unit Description: Shaper  
Raw Material/Fuel: Wet Dough  
Rated Capacity: 3.6 ton/hr

## Applicable Requirements

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

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

Pollutant: Opacity  
Emission Limit(s): 20%  
Authority for Requirement: LCPH ATI 4639 / PTO 4760R1  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 1.06 lb/hr  
Authority for Requirement: LCPH ATI 4639 / PTO 4760R1

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/dscf, 1.06 lb/hr  
Authority for Requirement: LCPH ATI 4639 / PTO 4760R1  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

**Operational Limits & Requirements**

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

**Control Device:**

A wet scrubber shall be installed to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.  
Authority for Requirement: LCPH ATI 4639 / PTO 4760R1

**Operating Limits:**

- A. Water flow to the scrubber shall be maintained at a minimum of 11.7 gallons per minute at all times.
- B. Recycled permeate water turbidity readings over 10 NTU shall require the owner/operator to promptly investigate the cause of elevated turbidity and take corrective action. The turbidity of the recycled permeate water must be taken prior to the addition of city makeup water in the permeate storage tank.
- C. The following emission points with scrubber control shall not discharge scrubber water into the recycled permeate water: EP 102, 103, 125, 130, 148, 161, 163, 169, 174, 175, 176. The scrubber water from these sources shall be discharged into the city sewer.
- D. The control equipment shall be maintained according to the manufacturer's specification and good operating practices.

Authority for Requirement: LCPH ATI 4639 / PTO 4760R1

**Operating Condition Monitoring and Recordkeeping:**

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

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. Monitor and record the turbidity of the permeate water on a weekly basis.
- C. Record any corrective action or maintenance completed to lower turbidity levels.
- D. Monitor and record scrubber water flow rates on a daily basis.
- E. Monitor and record all maintenance and repair completed on the control device.

*Note: The operation of an audible alarm system for the scrubber unit may be operated in lieu of daily logging of the water flow rate to the scrubber unit provided that the low level alarm set point is at least 11.7 gallons per minute.*

Authority for Requirement: LCPH ATI 4639 / PTO 4760R1

**Emission Point Characteristics**

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

Stack Height (ft, from ground): 98

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): 24

Exhaust Temperature (°F): 150

Exhaust Flowrate (scfm): 6200

Authority for Requirement: LCPH ATI 4639 / PTO 4760R1

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

emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**Monitoring Requirements**

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

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 148**

Associated Equipment

Associated Emission Unit ID Numbers: EU148  
Emissions Control Equipment ID Number: CE148  
Emissions Control Equipment Description: Wet Scrubber

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Emission Unit vented through this Emission Point: EU148  
Emission Unit Description: Liquid Mix  
Raw Material/Fuel: Sweeteners  
Rated Capacity: 3.38 ton/hr

## Applicable Requirements

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

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

Pollutant: Opacity  
Emission Limit(s): 20%<sup>1</sup>  
Authority for Requirement: LCPH ATI 5827 / PTO 5565R1  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 0.12 lb/hr  
Authority for Requirement: LCPH ATI 5827 / PTO 5565R1

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/dscf, 0.12 lb/hr  
Authority for Requirement: LCPH ATI 5827 / PTO 5565R1  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

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

**Operational Limits & Requirements**

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

**Control Device:**

A wet scrubber shall be installed to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All

appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 5827 / PTO 5565R1

**Operating Limits:**

- A. Water flow rate to the scrubber unit shall be maintained at a minimum of 1.8 gallons per minute at all times while the unit is in operation.
- B. Recycled permeate water turbidity readings over 10 NTU shall require the owner/operator to promptly investigate the cause of elevated turbidity and take corrective action. The turbidity of the recycled permeate water must be taken prior to the addition of city makeup water in the permeate storage tank.
- C. The following emission points with scrubber control shall not discharge scrubber water into the recycled permeate water: EP 102, 103, 125, 130, 148, 161, 163, 169, 174, 175, 176. The scrubber water from these sources shall be discharged into the city sewer
- D. The control equipment shall be maintained according to the manufacturer's specifications and good operating practices.

Authority for Requirement: LCPH ATI 5827 / PTO 5565R1

**Operating Condition Monitoring and Recordkeeping:**

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

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. Monitor and record the turbidity of the permeate water on a weekly basis.
- C. Monitor and record the scrubber water flow on a daily basis.
- D. Record all maintenance and repair completed on the control device.

*Note: The operation of an audible alarm system for the scrubber unit may be operated in lieu of daily logging of the water flow rates to the scrubber unit provided that the low level alarm set point is at least 1.8 gallons per minute.*

Authority for Requirement: LCPH ATI 5827 / PTO 5565R1

**Emission Point Characteristics**

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

Stack Height (feet, from ground): 80

Stack Diameter (opening, inches): 14

Discharge Style: Vertical, unobstructed

Exhaust Temperature (°F): 115

Exhaust Flow Rate (scfm): 1376

Authority for Requirement: LCPH ATI 5827 / PTO 5565R1

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

**Monitoring Requirements**

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

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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## **Emission Point ID Number: 152**

### Associated Equipment

Associated Emission Unit ID Numbers: EU152  
Emissions Control Equipment ID Number: CE152  
Emissions Control Equipment Description: Wet Scrubber

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Emission Unit vented through this Emission Point: EU152  
Emission Unit Description: Base Bin  
Raw Material/Fuel: In-Process Cereal  
Rated Capacity: 7.9 ton/hr

## **Applicable Requirements**

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

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

Pollutant: Opacity  
Emission Limit(s): 20%<sup>1</sup>  
Authority for Requirement: LCPH ATI 5374 / PTO 5375R1  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 0.14 lb/hr  
Authority for Requirement: LCPH ATI 5374 / PTO 5375R1

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/dscf, 0.14 lb/hr  
Authority for Requirement: LCPH ATI 5374 / PTO 5375R1  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

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

### **Operational Limits & Requirements**

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

#### **Control Device:**

A scrubber shall be used to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All

appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 5374 / PTO 5375R1

**Operating Limits:**

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

- A. Water flow rate to the scrubber unit shall be maintained at a minimum of 1.3 gallons per minute at all times while the unit is in operation.
- B. Recycled permeate water turbidity readings over 10 NTU shall require the owner/operator to promptly investigate the cause of elevated turbidity and take corrective action. The turbidity of the recycled permeate water must be taken prior to the addition of city makeup water in the permeate storage tank.
- C. The following emission points with scrubber control shall not discharge scrubber water into the recycled permeate water: EP 102, 103, 125, 130, 148, 161, 163, 169, 174, 175, 176. The scrubber water from these sources shall be discharged into the city sewer.
- D. The control equipment shall be maintained according to the manufacturer's specification and/or good operating practices.

Authority for Requirement: LCPH ATI 5374 / PTO 5375R1

**Operating Condition Monitoring and Recordkeeping:**

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

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance and record the corrective action taken.
- B. Monitor and record the turbidity of the permeate water on a weekly basis.
- C. Record any corrective action or maintenance completed to lower turbidity levels.
- D. Monitor and record the scrubber water flow on a daily basis.
- E. Record all maintenance and repair completed on the control device.

*Note: The operation of an audible alarm system for the scrubber unit may be operated in lieu of daily logging of the water flow rate to the scrubber unit provided the low level alarm set point is at least 1.3 gallons per minute.*

Authority for Requirement: LCPH ATI 53745375R1

**Emission Point Characteristics**

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

Stack Height (feet, from ground): 72

Stack Diameter (opening, inches): 14

Discharge Style: Vertical, Unobstructed

Exhaust Temperature (°F): 105  
Exhaust Flowrate (scfm): 800

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.  
Authority for Requirement: LCPH ATI 5374 / PTO 5375R1

**Monitoring Requirements**

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

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 159**

Associated Equipment

Associated Emission Unit ID Numbers: EU159

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Emission Unit vented through this Emission Point: EU159  
Emission Unit Description: Propane Gas Feeder Vaporizer  
Raw Material/Fuel: Propane  
Rated Capacity: 3.36 MMBtu/hr

## Applicable Requirements

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

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

Pollutant: Opacity  
Emission Limit(s): 20%  
Authority for Requirement: LCPH ATI 3905 / PTO 4579  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 0.0091 lb/hr, 0.04 tpy  
Authority for Requirement: LCPH ATI 3905 / PTO 4579

Pollutant: PM-10  
Emission Limit(s): 0.6 lb/MMBtu  
Authority for Requirement: LCPH ATI 3905 / PTO 4579

Pollutant: Particulate Matter  
Emission Limit(s): 0.6 lb/MMBtu, 0.0091 lb/hr, 0.04 tpy  
Authority for Requirement: LCPH ATI 3905 / PTO 4579  
567 IAC 23.3(2)"b"  
LCO 10.8(2)"b"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limit(s): 0.0023 lb/hr, 0.01 tpy  
Authority for Requirement: LCPH ATI 3905 / PTO 4579

Pollutant: Nitrogen Oxide (NO<sub>x</sub>)  
Emission Limit(s): 235 tpy  
Authority for Requirement: LCPH ATI 3905 / PTO 4579  
See Plant-Wide Conditions for Plant-Wide NO<sub>x</sub> limit.

**Operational Limits & Requirements**

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

See Plant-Wide Conditions section for Facility Operating Limits, Record keeping Requirements and Reporting Requirements that apply to this emission point.

**Emission Point Characteristics**

*This emission point shall conform to the conditions listed below.*

- Stack Height (feet, from ground): 11
- Discharge Style: Vertical, Obstructed
- Stack Opening (inches, diameter): 26 x 61
- Exhaust Temperature (°F): 150
- Exhaust Flowrate (scfm): 619
- Authority for Requirement: LCPH ATI 3905 / PTO 4579

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

**Monitoring Requirements**

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

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

**Compliance Assurance Monitoring (CAM) Plan Required?**

Yes  No

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 160**

Associated Equipment

Associated Emission Unit ID Numbers: EU160  
Emissions Control Equipment ID Number: CE160  
Emissions Control Equipment Description: Central Vacuum Collector

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Emission Unit vented through this Emission Point: EU160  
Emission Unit Description: Central Vacuum System  
Raw Material/Fuel: Mixed Cereals  
Rated Capacity: 11.75 ton/hr

## Applicable Requirements

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

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

Pollutant: Opacity  
Emission Limit(s): 20%  
Authority for Requirement: LCPH ATI 6233 / PTO 6007R1  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 0.09 lbs/hr  
Authority for Requirement: LCPH ATI 6233 / PTO 6007R1

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/dscf, 0.09 lbs/hr  
Authority for Requirement: LCPH ATI 6233 / PTO 6007R1  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

**Operational Limits & Requirements**

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

**Control Device:**

A baghouse shall be installed to control particulate matter emissions. The control equipment shall be maintained on this source in a good operating condition at all times the air pollution source is in operation. All appropriate probes and gauges needed to measure the parameters outlined in "Record keeping Requirements" shall be installed and maintained in a good operating condition.

Authority for Requirement: LCPH ATI 6233 / PTO 6007R1

**Operating Limits:**

- A. Beginning no later than November 11, 2012, the differential pressure measured across the baghouse, CE 160, shall be maintained between 0.1 inches of water and 8 inches of water column with the exception of unit startup.
- B. The control equipment on this unit shall be maintained according to the manufacturer's specification and good operating practices.

Authority for Requirement: LCPH ATI 6233 / PTO 6007R1

**Operating Condition Monitoring and Recordkeeping:**

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

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. Beginning no later than November 11, 2012, monitor and record the differential pressure on the baghouse on a weekly basis while the control equipment and emission unit are in operation.
- C. Monitor and record any maintenance and repair completed on the control equipment.

Authority for Requirement: LCPH ATI 6233 / PTO 6007R1

**Emission Point Characteristics**

*This emission point shall conform to the conditions listed below.*

Stack Height (feet, from ground): 55

Discharge Style: Vertical, Unobstructed

Stack Opening (inches, diameter): 4

Exhaust Temperature (°F): 100

Exhaust Flowrate (scfm): 500

Authority for Requirement: LCPH ATI 6233 / PTO 6007R1

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

**Monitoring Requirements**

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

**Opacity Monitoring:**

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity

shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 161**

Associated Equipment

Associated Emission Unit ID Numbers: EU161  
Emissions Control Equipment ID Number: CE161  
Emissions Control Equipment Description: Wet Scrubber

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Emission Unit vented through this Emission Point: EU161  
Emission Unit Description: Dryer  
Raw Material/Fuel: Wet Dough  
Rated Capacity: 10.25 ton/hr

## Applicable Requirements

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

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

Pollutant: Opacity  
Emission Limit(s): 20%<sup>1</sup>  
Authority for Requirement: LCPH ATI 5141 / PTO 5087R2  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 0.90 lb/hr  
Authority for Requirement: LCPH ATI 5141 / PTO 5087R2

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/dscf, 0.90 lb/hr  
Authority for Requirement: LCPH ATI 5141 / PTO 5087R2  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

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

**Operational Limits & Requirements**

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

**Control Device:**

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

Authority for Requirement: LCPH ATI 5141 / PTO 5087R2

#### **Operating Limits:**

- A. Water flow rate to the scrubber unit shall be maintained at a minimum of 3 gallon per minute at all times while the unit is in operation.
- B. Recycled permeate water turbidity readings over 10 NTU shall require the owner/operator to promptly investigate the cause of elevated turbidity and take corrective action. The turbidity of the recycled permeate water must be taken prior to the addition of city makeup water in the permeate storage tank.
- C. The following emission points with scrubber control shall not discharge scrubber water into the recycled permeate water: EP 102, 103, 125, 130, 148, 161, 163, 169, 174, 175, 176. The scrubber water from these sources shall be discharged into the city sewer.
- D. The control equipment shall be maintained according to the manufacturer's specifications and good operating practices.

Authority for Requirement: LCPH 5141 / PTO 5087R2

#### **Operating Condition Monitoring and Recordkeeping:**

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

- A. The owner or operator shall monitor and record 'no visible emissions' observation on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. Monitor and record the turbidity of the permeate water on a weekly basis.
- C. Monitor and record scrubber water flow rates on a daily basis.
- D. Monitor and record all maintenance and repair completed on the control device.

**Note:** *The operation of an audible low water flow alarm system for the scrubber unit may be operated in lieu of daily logging of the water flow rate to the scrubber unit provided that the low level alarm set point is at least 3 gallons per minute.*

Authority for Requirement: LCPH ATI 5141 / PTO 5087R2

#### **Emission Point Characteristics**

Stack Height (feet, from ground): 72

Discharge Style: Vertical, unobstructed

Stack Opening (inches in diameter): 34

Exhaust Temperature (°F): 185

Exhaust Flowrate (scfm): 11,812

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

Authority for Requirement: LCPH ATI 5141 / PTO 5087R2

**Monitoring Requirements**

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

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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## **Emission Point ID Number: 162**

### Associated Equipment

Associated Emission Unit ID Numbers: EU162

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Emission Unit vented through this Emission Point: EU162  
Emission Unit Description: Standby Generator (1186 bhp)  
Raw Material/Fuel: Diesel Fuel  
Rated Capacity: 58.6 gallon./hr

## **Applicable Requirements**

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

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

Pollutant: Opacity  
Emission Limit(s): 20%  
Authority for Requirement: LCPH ATI 6234 / PTO 6008  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 1.15 lb/hr  
Authority for Requirement: LCPH ATI 6234 / PTO 6008

Pollutant: Particulate Matter  
Emission Limit(s): 0.6 lb/MMBtu, 1.15 lb/hr  
Authority for Requirement: LCPH ATI 6234/ PTO 6008  
567 IAC 23.3(2)"b"  
LCO 10.8(2)"b"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limit(s): 1.5 lb/MMBtu  
Authority for Requirement: LCPH ATI 6234 / PTO 6008  
LCO 10.12(1)"b"

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)  
Emission Limit(s): 235 tpy  
Authority for Requirement: LCPH ATI 6234 / PTO 6008  
See Plant-Wide Conditions for Plant-Wide NO<sub>x</sub> limit.

This equipment is subject to the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE NESHAP) [40 CFR Part 63 Subpart ZZZZ].

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ

### **Operational Limits & Requirements**

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

Refer to the Plant-Wide Conditions section for Facility Operating Limits, Record keeping Requirements and Reporting Requirements that apply to this emission point.

#### **Operating Limits:**

- This source shall be limited to 1000 hours of operation per year calculated on a 12-month rolling total.
- Fuel use shall be limited to #1 or #2 grade diesel fuel only.
- The sulfur content of any diesel fuel used in the emission unit shall meet the requirements of 40 CFR §80.510.

Authority for Requirement: LCPH ATI 6234 / PTO6008

#### **Operating Condition Monitoring and Recordkeeping:**

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

- The owner or operator shall obtain a fuel certification from the fuel supplier specifying the sulfur content of the fuel.
- Record the number of hours the engine is operated each month. Calculate and record the 12-month rolling total hours.
- Refer to the requirements of Attachment A, Facility Bubble Permit Requirements.

Authority for Requirement: LCPH ATI 6234 / PTO 6008

### **Emission Point Characteristics**

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

Stack Height (ft, from ground): 66

Discharge Style: Vertical, unobstructing rain cap

Stack Opening (inches in diameter): 12

Exhaust Temperature (°F): 981

Exhaust Flowrate (scfm): 6381

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

Authority for Requirement: LCPH ATI 6234 / PTO 6008

**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)

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**Emission Point ID Number: 163**

Associated Equipment

Associated Emission Unit ID Numbers: EU163  
Emissions Control Equipment ID Number: CE163  
Emissions Control Equipment Description: Wet Scrubber

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Emission Unit vented through this Emission Point: EU163  
Emission Unit Description: Dryer  
Raw Material/Fuel: Wet Dough  
Rated Capacity: 6.3 ton/hr

## Applicable Requirements

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

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

Pollutant: Opacity  
Emission Limit(s): 20%  
Authority for Requirement: LCPH ATI 4340 / PTO 4665R1  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 0.26 lb/hr  
Authority for Requirement: LCPH ATI 4340 / PTO 4665R1

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/scf, 0.26 lb/hr  
Authority for Requirement: LCPH ATI 4340 / PTO 4665R1  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

**Operational Limits & Requirements**

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

**Control Device:**

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

Authority for Requirement: LCPH ATI 4340 / PTO 4665R1

**Operating Limits:**

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

- A. Water flow rate to the scrubber unit shall be maintained at a minimum of 4 gallons per minute at all times while the unit is in operation.
- B. Recycled permeate water turbidity readings over 10 NTU shall require the owner/operator to promptly investigate the cause of elevated turbidity and take corrective action. The turbidity of the recycled permeate water must be taken prior to the addition of city makeup water in the permeate storage tank.
- C. The following emission points with scrubber control shall not discharge scrubber water into the recycled permeate water: EP 102, 103, 125, 130, 148, 161, 163, 169, 174, 175, 176. The scrubber water from these sources shall be discharged into the city sewer.
- D. The control equipment shall be maintained according to the manufacturer's specifications and good operating practices.

Authority for Requirement: LCPH ATI 4340 / PTO 4665R1

**Operating Condition Monitoring and Recordkeeping:**

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

- A. The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.
- B. Monitor and record the turbidity of the permeate water on a weekly basis.
- C. Monitor and record scrubber water flow rates on a daily basis.
- D. Monitor and record all maintenance and repair completed on the control device.

*Note: The operation of an audible alarm system for the scrubber unit may be operated in lieu of daily logging of the water flow rate to the scrubber unit provided that the low level alarm set point is at least 4 gallons per minute.*

Authority for Requirement: LCPH ATI 4340 / PTO 4665R1

**Emission Point Characteristics**

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

Stack Height (feet, from ground): 64  
Discharge Style: Vertical, unobstructed  
Stack Diameter (inches): 10  
Exhaust Temperature (°F): 200  
Exhaust Flow Rate (acfm): 1917

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

Authority for Requirement: LCPH ATI 4340 / PTO 4665R1

**Monitoring Requirements**

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

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 166****Associated Equipment**

Associated Emission Unit ID Numbers: EU166A, EU166B

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Emission Unit vented through this Emission Point: EU166A, EU166B  
Emission Unit Description: Shop Emergency Generator (Standby) 125 eKW  
Raw Material/Fuel: Natural Gas, Propane  
Rated Capacity: 1.508 MMBtu/hr

## Applicable Requirements

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

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

Pollutant: Opacity  
Emission Limit(s): 20%  
Authority for Requirement: LCPH ATI 6236 / PTO 6010  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 0.012 lb/hr  
Authority for Requirement: LCPH ATI 6236 / PTO 6010

Pollutant: Particulate Matter  
Emission Limit(s): 0.6 lb/MMBtu, 0.012 lb/hr  
Authority for Requirement: LCPH ATI 6236 / PTO 6010  
567 IAC 23.3(2)"b"  
LCO 10.8(2)"b"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limit(s): 1.5 lb/MMBtu (propane)  
Authority for Requirement: LCPH ATI 6236 / PTO 6010  
LCO 10.12(1)"b"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limit(s): 500 ppmv (natural gas)  
Authority for Requirement: LCPH ATI 6236 / PTO 6010  
567 IAC 23.3(3)"e"  
LCO 10.12(2)

Pollutant: Nitrogen Oxide (NO<sub>x</sub>)  
Emission Limit(s): 235 tpy

Authority for Requirement: LCPH ATI 6236 / PTO 6010  
See Plant-Wide Conditions for Plant-Wide NO<sub>x</sub> limit.

This equipment is subject to the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE NESHAP) [40 CFR Part 63 Subpart ZZZZ].

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ

### **Operational Limits & Requirements**

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

See Plant-Wide Conditions section for Facility Operating Limits, Record keeping Requirements and Reporting Requirements that apply to this emission point.

#### **Operating Limits:**

- This engine shall operate no more than 500 hours of operation per year calculated on a 12-month rolling total.
- This unit shall burn propane and/or natural gas only.

Authority for Requirement: LCPH ATI 6236 / PTO 6010

#### **Operating Condition Monitoring and Recordkeeping:**

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

- Record the number of hours the engine is operated each month. Calculate and record the 12-month rolling total hours.
- Refer to the requirements of Attachment A, Facility NO<sub>x</sub> Bubble Permit Requirements (see Plant Wide Conditions).

Authority for Requirement: LCPH ATI 6236 / PTO 6010

### **Emission Point Characteristics**

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

Stack Height (ft, from ground): 32

Discharge Style: Vertical, Unobstructing rain cap

Stack Opening, (inches, diameter): 4

Exhaust Temperature (°F): 1544

Exhaust Flowrate (scfm): 205

Authority for Requirement: LCPH ATI 6236 / PTO 6010

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

emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 167**

Associated Equipment

Associated Emission Unit ID Numbers: EU167

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Emission Unit vented through this Emission Point: EU167

Emission Unit Description: Standby Generator

Raw Material/Fuel: Diesel Fuel

Rated Capacity: 58.9 gallon/hr

## Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 20%

Authority for Requirement: LCPH ATI 6237 / PTO 6011  
LCO 10.7

Pollutant: Particulate Matter

Emission Limit(s): 0.54 g/KW-hr

Authority for Requirement: LCPH ATI 6237 / PTO 6011  
40 CFR §60.4204(a)

Pollutant: Particulate Matter

Emission Limit(s): 0.6 lb/MMBtu

Authority for Requirement: LCPH ATI 6237/ PTO 6011  
567 IAC 23.3(2)"b"  
LCO 10.8(2)"b"

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

Emission Limit(s): 1.5 lbs/MMBtu

Authority for Requirement: LCPH ATI 6237 / PTO 6011  
LCO 10.12(1)"b"

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

Emission Limit(s): 15 ppmv

Authority for Requirement: LCPH ATI 6237 / PTO 6011  
40 CFR §60.4207(b)

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)  
Emission Limit(s): 235 tpy  
Authority for Requirement: LCPH ATI 6237 / PTO 6011  
See Plant-Wide Conditions for Plant-Wide NO<sub>x</sub> limit.

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)  
Emission Limit(s): 9.2 g/KW-hr  
Authority for Requirement: LCPH ATI 6237 / PTO 6011  
40 CFR §60.4204(a)

Pollutant: VOC  
Emission Limit(s): 1.3 g/KW-hr  
Authority for Requirement: LCPH ATI 6237 / PTO 6011  
40 CFR §60.4204(a)

Pollutant: CO  
Emission Limit(s): 11.4 g/KW-hr  
Authority for Requirement: LCPH ATI 6237 / PTO 6011  
40 CFR §60.4204(a)

This equipment is subject to the New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines [40 CFR Part 60 Subpart III].  
Authority for Requirement: 40 CFR 60 Subpart III

This equipment is subject to the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE NESHAP) [40 CFR Part 63 Subpart ZZZZ].  
Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ

### **Operational Limits & Requirements**

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

Refer to the Plant-Wide Conditions section for Facility Operating Limits, Record keeping Requirements and Reporting Requirements that apply to this emission point.

### **Operating Limits:**

- This source shall be limited to 1000 hours of operation per year based on a 12-month rolling total.
- Fuel use shall be limited to #1 or #2 grade diesel fuel only.
- The owner or operator shall meet the applicable General Provisions requirements of 40 CFR §60 Subpart A as indicated in 40 CFR §60.4218 to comply with LCCO 10.9(2).
- The owner or operator shall meet the Emission Standards for Owners and Operators requirements of 40 CFR §60.4204 and §60.4206 to comply with LCCO 10.9(2) “77.”
- The owner or operator shall comply with the Fuel Requirements for Owners and Operators of 40 CFR §60.4207 (Subpart III) to comply with LCCO 10.9(2) “77.”

- The owner or operator shall install and operate the generator according to manufacturer's recommendations.
- Refer to the requirements of Attachment A, Facility Bubble Permit Requirements.

Authority for Requirement: LCPH ATI 6237 / PTO 6011

**Operating Condition Monitoring and Recordkeeping:**

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

- The owner or operator shall obtain a fuel certification from the fuel supplier that states all diesel shipments will meet the specifications of 40 CFR §60.4207 on an annual basis.
- Record the number of hours the engine operates each month. Calculate and record the 12-month rolling total hours.
- The owner or operator shall complete all recordkeeping and monitoring as required by NSPS Subpart IIII as indicated below:
- The owner or operator of the stationary CI internal combustion engine shall follow the monitoring requirements of 40 CFR §60.4209.
- The owner or operator of the stationary CI internal combustion engine shall follow the compliance requirements of 40 CFR §60.4211.
- The owner or operator of the stationary CI internal combustion engine shall follow the notification, reporting, and recordkeeping requirements of 40 CFR §60.4214.
- Refer to the requirements of Attachment A, Facility Bubble Permit Requirements.

Authority for Requirement: LCPH ATI 6237 / PTO 6011

**Emission Point Characteristics**

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

Stack Height (ft, from ground): 66  
 Discharge Style: Vertical, unobstructing rain cap  
 Stack Opening (inches in diameter): 12  
 Exhaust Temperature (°F): 964  
 Exhaust Flowrate (scfm): 6932

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

Authority for Requirement: LCPH ATI 6237 / PTO 6011

**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: 168, 169, 170, 171, 173, 174, 175, 176, 177**

Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CEID	CE Description
168	168	Extruder	Wet Dough	4.53 tons/hr	CE168	Wet Scrubber
169	169	Pelletizer	Wet Dough	4.53 tons/hr	CE169	Wet Scrubber
170	170	Dryer	Wet Dough	3.60 tons/hr	CE170	Wet Scrubber
171	171A	Preheater	Wet Dough	3.6 tons/hr	CE171	Wet Scrubber
171	171B	Shaper	Wet Dough	3.6 tons/hr		
171	171C	Blower	Wet Dough	3.6 tons/hr		
173	173	Dryer	Wet Dough	3.54 tons/hr	CE173	Wet Scrubber
174	174A	Mix	Sweetners	3.63 tons/hr	CE174	Wet Scrubber
174	174B	Slurry	Sweetners		CE174	Wet Scrubber
174	174C	Enrober	Sweetners		CE174	Wet Scrubber
175	175	Dryer	In Process Cereal	7.17 tons/hr	CE175	Wet Scrubber
176	176	Cooler	Finished Cereal	6.42 tons/hr	CE176	Wet Scrubber
177	177A	Dryer	Wet Dough	10.80 tons/hr	CE177	Wet Scrubber
177	177B	Dryer	Wet Dough	10.80 tons/hr	CE177	
177	177C	Dryer	Wet Dough	10.80 tons/hr	CE177	

**Applicable Requirements**

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

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

**Emission Limits.**

EP	Pollutant	Emission Limit(s)	LCPH ATI/PTO
168, 169, 170, 171, 173, 174, 175, 176, 177	Opacity	20% <sup>1</sup>	5863 / 5772R1 5864 / 5773R1 5865 / 5774R2 5866 / 5775R2 5868 / 5777R1 5869 / 5778R1 5870 / 5779R2 5871 / 5780R2 5948 / 5684R1 LCO 10.7
168, 169, 170, 171, 173, 174, 175, 176, 177	PM	0.1 gr/scf	5863 / 5772R1 5864 / 5773R1 5865 / 5774R2 5866 / 5775R2

			5868 / 5777R1 5869 / 5778R1 5870 / 5779R2 5871 / 5780R2 5948 / 5684R1 LCO 10.9(1)"a"
168	PM/PM10	0.20 lbs/hr	5863 / 5772R1
169	PM/PM10	0.07 lbs/hr	5864 / 5773R1
170	PM/PM10	0.46 lbs/hr	5865 / 5774R2
171	PM/PM10	1.34 lbs/hr	5866 / 5775R2
173	PM/PM10	0.13 lbs/hr	5868 / 5777R1
174	PM/PM10	0.10 lbs/hr	5869 / 5778R1
175	PM/PM10	0.37 lbs/hr	5870 / 5779R2
176	PM/PM10	0.64 lbs/hr	5871 / 5780R2
177	PM/PM10	0.25 lbs/hr	5948 / 5684R1

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

**Operational Limits & Requirements**

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

**Control Device:**

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

Authority for Requirement: ATI 5863/PTO 5772R1  
ATI 5864/PTO 5773R1  
ATI 5865/PTO 5774R2  
ATI 5866/PTO 5775R2  
ATI 5868/PTO 5777R1  
ATI 5869/PTO 5778R1  
ATI 5870/PTO 5779R2  
ATI 5871/PTO 5780R2  
ATI 5948/PTO 5684R1

**Operating Limits:**

<u>EP</u>	<u>Limit</u>	<u>Authority for Requirement (ATI/PTO)</u>
168, 169, 170, 171, 173, 174,	The control equipment shall be maintained according to the manufacturer's	5863/ 5772R1 5864/ 5773R1

175, 176, 177	specifications and good operating practices.	5865/ 5774R2 5866/ 5775R2 5868/ 5777R1 5869/ 5778R1 5870/ 5779R2 5871/ 5780R2 5948/ 5684R1
168, 169, 170, 171, 173, 174, 175, 176, 177	<p>Recycled permeate water turbidity readings over 10 NTU shall require the owner/operator to promptly investigate the cause of elevated turbidity and take corrective action. The turbidity of the recycled permeate water must be taken prior to the addition of city makeup water in the permeate storage tank.</p> <p>The following emission points with scrubber control shall not discharge scrubber water into the recycled permeate water: EP 102, 103, 125, 130, 148, 161, 163, 169, 174, 175, 176. The scrubber water from these sources shall be discharged into the city sewer.</p>	5863/ 5772R1 5864/ 5773R1 5865/ 5774R2 5866/ 5775R2 5868/ 5777R1 5869/ 5778R1 5870/ 5779R2 5871/ 5780R2 5948/ 5684R1
168	<p>Water flow to the scrubber unit shall be maintained at a minimum of 5 gallons per minute at all times while the unit is in operation.</p> <p>This emission unit shall be limited to 8000 pounds per hour.</p>	5863/ 5772R1
169	Water flow rate to the scrubber unit shall be maintained at a minimum of 1.6 gallons per minute at all times while the unit is in operation.	5864/ 5773R1
170	Water flow rate to the scrubber unit shall be maintained at a minimum of 6 gallons per minute at all times while the unit is in operation.	5865/ 5774R2
171	<p>Water flow rate to the scrubber unit shall be maintained at a minimum of 12 gallons per minute at all times while the unit is in operation.</p> <p>This emission unit shall be limited to an average hourly dry feed rate of 5600 lbs/hr calculated on a calendar day basis.</p>	5866/ 5775R2

173	Water flow rate to the scrubber unit shall be maintained at a minimum of 3.5 gallons per minute at all times while the unit is in operation.	5868/ 5777R1
174	Water flow rate to the scrubber unit shall be maintained at a minimum of 2.3 gallons per minute at all times while the unit is in operation.	5869/ 5778R1
175	Water flow rate to the scrubber unit shall be maintained at a minimum of 5 gallons per minute at all times while the unit is in operation.	5870/ 5779R2
176	Water flow rate to the scrubber unit shall be maintained at a minimum of 8 gallons per minute at all times while the unit is in operation.	5871/ 5780R2
177	Water flow rate to the scrubber unit shall be maintained at a minimum of 3.1 gallons per minute at all times while the unit is in operation.	5948/5684R1

**Operating Condition Monitoring and Recordkeeping:**

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

<u>EP</u>	<u>Requirement</u>	<u>Authority for Requirement (ATI/PTO)</u>
168,169, 170,171, 173,174, 175,176, 177	<p>The owner or operator shall monitor and record ‘no visible emissions’ observations on a weekly basis. An exceedance of ‘no visible emissions’ will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.</p> <p>Monitor and record the turbidity of the permeate water on a weekly basis.</p> <p>Monitor and record the scrubber water flow rate on a daily basis.</p> <p>Monitor and record any maintenance and repair completed to the scrubber.</p>	<p>5863/ 5772R1  5864/ 5773R1  5865/ 5774R2  5866/ 5775R2  5868/ 5777R1  5869/ 5778R1  5870/ 5779R2  5871/ 5780R2  5948/ 5684R1</p>

	Note: The operation of an audible low water flow alarm system for the scrubber unit may be operated in lieu of daily logging of the water flow rate to the scrubber unit provided that the low level alarm is set to alarm at the permitted minimum water flow rate in gallons per minute for each scrubber.	
168	Monitor and record the production rate on an hourly basis.	5863/ 5772R1
171	Monitor and record the average hourly dry feed rate on a daily basis by summing the total dry feed throughput in a calendar day and dividing that total by the operating hours for the day.	5866/ 5775R2
168 170 171 173 175 176 177	Record any corrective action or maintenance completed to lower turbidity levels.	5863/ 5772R1 5865/ 5774R2 5866/ 5775R2 5868/ 5777R1 5870 / 5779R2 5871 / 5780R2 5948/5684R1

### **Emission Point Characteristics**

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

<b>EP</b>	<b>LCPH ATI/PTO</b>	<b>Stack Height (feet, above ground)</b>	<b>Discharge Style</b>	<b>Stack Opening (inches, dia.)</b>	<b>Exhaust Temperature (°F)</b>	<b>Exhaust Flowrate (scfm)</b>
168	5863/5772 R1	83	Vertical, unobstructed	16	120	2284
169	5864/5773 R1	83	Vertical, unobstructed	10	70	800
170	5865/5774 R2	72	Vertical, unobstructed	24	230	5377
171	5866/5775 R2	83	Vertical, unobstructed	24	150	5213
173	5868/5777 R1	84	Vertical, unobstructed	14	230	1536
174	5869/5778 R1	88	Vertical, unobstructed	8	100	1136
175	5870/5779 R2	93	Vertical, unobstructed	24	270	4356
176	5871/5780 R2	93	Vertical, unobstructed	43	110	7439
177	5948/5684 R1	102	Vertical, unobstructed	20	150	1434

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

**Monitoring Requirements**

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

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

**Facility Maintained Operation & Maintenance Plan Required? EP 171** Yes  No

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 179**

Associated Equipment

Associated Emission Unit ID Numbers: EU179

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Emission Unit vented through this Emission Point: EU179

Emission Unit Description: Propane Burner

Raw Material/Fuel: Propane

Rated Capacity: 0.5 MMBTU/hr

## Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 20%<sup>1</sup>

Authority for Requirement: LCPH ATI 6002/PTO 5720R2  
LCO 10.7

Pollutant: Particulate Matter

Emission Limit(s): 0.6 lb/MMBtu

Authority for Requirement: LCPH ATI 6002/ PTO 5720R2  
567 IAC 23.3(2)"b"  
LCO 10.8(2)"b"

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

Emission Limit(s): 1.5 lbs/MMBtu

Authority for Requirement: LCPH ATI 6002/ PTO 5720R2  
LCO 10.12(1)"b"

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

Emission Limit(s): 235 tpy

Authority for Requirement: LCPH ATI 6002 / PTO 5720R2  
See Plant-Wide Conditions for Plant-Wide NO<sub>x</sub> limit.

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

### **Operational Limits & Requirements**

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

See Plant-Wide Conditions section for Facility Operating Limits, Recordkeeping Requirements and Reporting Requirements that apply to this emission point.

- A. This emission point shall be limited to 100 hours of operation per year based upon a 12-month rolling total.
- B. Refer to Attachment A, Facility NO<sub>x</sub> Bubble Permit Requirements.  
Authority for Requirement: LCPH ATI 6002 / PTO 5720R2

### **Operating Condition Monitoring and Recordkeeping:**

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

- A. Record the propane burner hours of operation on a monthly basis.
- B. Refer to Attachment A, Facility NO<sub>x</sub> Bubble Permit Requirements.  
Authority for Requirement: LCPH ATI 6002 / PTO 5720R2

### **Reporting Requirements:**

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

- A. Refer to Attachment A, Facility NO<sub>x</sub> Bubble Permit Requirements.  
Authority for Requirement: LCPH ATI 6002 / PTO 5720R2

### **Emission Point Characteristics**

*This emission point shall conform to the conditions listed below.*

Stack Height (feet, from ground): 18  
Discharge Style: Vertical, unobstructed  
Stack Opening (inches, diameter): 12  
Exhaust Temperature (°F): 150  
Exhaust Flowrate (scfm): 99

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

Authority for Requirement: LCPH ATI 6002 / PTO 5720R2

**Monitoring Requirements**

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

There are no monitoring requirements for this source.

**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)

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**Emission Point ID Number: 180, 200, 308****Associated Equipment**

EP	EU	EU Description	Raw Material	Rated Capacity	Control Equipment
180	180	Regrinds Receiver	Ingredient	8.55 tons/hr	Cartridge Filters
200	200	Product Receiver	Ingredient	10.25 tons/hr	Baghouse
308	308A	Product Receiver	Ingredient	3.0 tons/hr	Fabric Filter
308	308B	Product Receiver	Ingredient	3.0 tons/hr	
308	308C	Product Receiver	Ingredient	6.0 tons/hr	

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## Applicable Requirements

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

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

**Emission Limits.**

EP	Pollutant	Emission Limit(s)	Authority for Requirement (ATI/PTO)
180, 200, 308	Opacity	20% <sup>1</sup>	LCO 10.7 6436 / 6219 6238/6012R1 5139 / 5339
180, 200, 308	PM	0.1 gr/dscf	LCO 10.9(1) "a" 6436/6219 6238/6012R1 5139 / 5339
180	PM/PM10	0.26 lbs/hr	6436/6219
200	PM/PM10	0.58 lbs/hr	6238/6012R1
308	PM/PM10	0.78 lbs/hr	5139 / 5339

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

**Operational Limits & Requirements**

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

**Control Device:**

A baghouse shall be used to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in

"Operating Condition Monitoring and Record keeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 6238/ PTO 6012R1

LCPH ATI 5139 / PTO 5339

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

Authority for Requirement: LCPH ATI 6436 / PTO 6219

**Operating Limits:**

<b>EP</b>	<b>Limit</b>	<b>Authority for Requirement (ATI/PTO)</b>
180 200	The differential pressure measured across the [control equipment] shall be maintained between 0.1 inches of water column and 8 inches of water column with the exception of unit startup.  The control equipment on this unit shall be maintained according to the manufacturer's specification and good operating practices.	6436/6219 6238 / 6012R1
308	The differential pressure measured across the baghouse shall be greater than 0.5 inches of water column and less than 15.0 inches of water column.	5139 / 5339

**Operating Condition Monitoring and Recordkeeping:**

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

<b>EP</b>	<b>Requirement</b>	<b>Authority for Requirement (ATI/PTO)</b>
180 200 308	<u>Monitor and record the differential pressure on the [control equipment] on a weekly basis while the control equipment and emission unit are in operation.</u>  <u>Monitor and record any maintenance and repair completed on the control equipment.</u>	6436 / 6219 6238 / 6012R1
180 200	<u>The owner or operator shall monitor and record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections to operations or equipment associated with the exceedance, and record the corrective action taken.</u>	6436 / 6219 6238 / 6012R1

308	<p><u>Monitor and record “no visible emissions” observations on a weekly basis and any action resulting from the observation during periods where differential pressure measured across all baghouses are between 0.5 inches and 8 inches of water column.</u></p> <p><u>Monitor and record “no visible emissions” observations on a daily basis during periods where differential pressure measured across any baghouse is greater than 8 inches of water.</u></p>	5139 / 5339
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**Emission Point Characteristics**

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

EP	LCPH ATI/PTO	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temperature (°F)	Exhaust Flowrate (scfm)
180	6436 / 6219	71	Vertical, unobstructed	12	125	4006
200	6238 / 6012R1	72	Vertical, unobstructed	20	132	12,700
308	5139 / 5339	42	Vertical, unobstructed	20	130	9027

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

**Monitoring Requirements**

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

**Stack Testing:**

**EP 180**

Pollutant – PM-10

1st Stack Test to be Completed by – February 28, 2016

Test Method – Method 201A with 202 or approved alternative

Authority for Requirement – 567 IAC 22.108(3)

Pollutant – PM

1st Stack Test to be Completed by – February 28, 2016

Test Method – Method 5 or approved alternative

Authority for Requirement – 567 IAC 22.108(3)

**EP 308**

Pollutant – PM

1st Stack Test to be Completed by – February 28, 2016

Test Method – Method 5 or approved alternative

Authority for Requirement – 567 IAC 22.108(3)

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

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

**Facility Maintained Operation & Maintenance Plan Required? EP 200** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required? EPs 180, 308** Yes  No

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

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

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

*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.*

*Authority for Requirement: 567 IAC 22.108(3)*

## **Compliance Assurance Monitoring Plan**

### **CAM Plan for EP 180 Baghouse**

#### **I. Background**

##### **A. Emissions Unit**

Description: Regrinds Receiver  
Identification: EU180  
Facility: General Mills Operations, Inc.  
Cedar Rapids, Iowa

##### **B. Applicable Regulation, Emission Limit, and Monitoring Requirements**

Regulation No.: Permit to Operate 5989  
Particulate emission limit: .26 lb/hr, 0.1 gr/scf PM/PM-10  
Opacity emission limit: 20%  
Current Monitoring requirements: Weekly opacity, weekly pressure differential readings.

C. Control Technology: Cartridge Filters

#### **II. Monitoring Approach**

##### **A. Indicator**

Daily pressure differential checks will be used as an indicator.

##### **B. Measurement Approach**

Pressure drop will be checked daily to ensure that pressure differential is maintained between 0.1 inches of water column and 8 inches of water column during material handling operation of the unit with the exception of unit startup.

##### **C. Indicator Range**

Pressure drop shall be maintained between 0.1 inches of water column and 8 inches of water column during operation with the exception of unit startup.

##### **D. QIP (Quality Improvement Plan) Threshold**

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

##### **E. Performance Criteria**

Data representativeness: Pressure differential maintained between 0.1

inches of water column and 8 inches of water column during operation with the exception of unit startup.

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

QA/QC practices and criteria: The facility shall check the pressure drop daily when the emission unit on this emission point is in operation. If a pressure differential is observed and outside the permitted water column range during operation, corrective action will be taken within 8 hours.

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

### III. Justification

#### A. Background

This facility processes ingredients into cereal. The pollutant specific emission unit is the bag filter that controls emissions from a specific source. The controlled exhaust flow rate is approximately 4006 standard cubic feet per minute.

#### B. Rationale for Selection of Performance Indicator

The daily pressure drop readings were selected as the performance indicator because it is indicative of operation of the baghouse in a manner necessary to comply with the particulate emission standard. A pressure drop of less than 0.1 inches of water column and or greater than 8 inches of water column would indicate a reduced performance of the baghouse. Therefore, the detection of out-of-range pressure differential is used as a performance indicator.

#### C. Rationale for Selection of Indicator Level

The selected indicator range is a pressure drop between 0.1 inches of water column and 8 inches of water column during operation with the exception of unit startup, was selected because if the pressure differential observed is outside the permitted pressure differential reading, corrective action will be taken within 8 hours.

The pressure differential range noted above was selected as indicator ranges because if pressure differential were to be outside the range of water column readings, this would indicate a potential increase in particulate emissions due to a decrease in the performance of this baghouse. If the baghouse is operating properly, pressure differentials in the above range will be maintained except during startup, shut down, and upset conditions.

The selected QIP threshold for the baghouse is 6 excursions in a 6-month reporting period. If the QIP threshold is exceeded in a semiannual reporting period, a QIP will be developed and implemented.

## **Compliance Assurance Monitoring Plan**

### **CAM Plan for EP 308 Baghouse**

#### **I. Background**

##### **A. Emissions Unit**

Description: Product Receiver  
Identification: EU308 A/B/C  
Facility: General Mills Operations, Inc.  
Cedar Rapids, Iowa

##### **B. Applicable Regulation, Emission Limit, and Monitoring Requirements**

Regulation No.: Permit to Operate 5339  
Particulate emission limit: 0.1 gr/scf, 0.78 lbs/hr PM/PM-10  
Opacity emission limit: 20%  
Current Monitoring requirements: Weekly opacity, daily pressure differential readings on each baghouse.

C. Control Technology: Fabric Filter

#### **II. Monitoring Approach**

##### **A. Indicator**

Daily pressure differential checks will be used as an indicator.

##### **B. Measurement Approach**

Pressure drop will be checked daily to ensure that pressure differential is maintained between 0.5 inches of water column and 8 inches of water column during material handling operation of the unit with the exception of unit startup, however, if the baghouse differential pressure rises above 8 inches of water column, a daily observation of no visible emissions must be completed.

##### **C. Indicator Range**

Pressure drop shall be maintained between 0.5 inches of water column and 8 inches of water column during operation with the exception of a water column observation above 8 inches then daily stack checks for no visible emissions will be completed.

##### **D. QIP (Quality Improvement Plan) Threshold**

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

##### **E. Performance Criteria**

Data representativeness:	Pressure differential maintained between 0.5 inches of water column and 8 inches of water column during operation with an exception of a water column observation above 8 inches. If the differential pressure exceeds 8 inches then the stack will be checked daily for no visible emissions.
Verification of operational status:	Records of pressure drop readings will be maintained for five years.
	QA/QC practices and criteria: The facility shall check the pressure drop daily when the emission unit on this emission point is in operation. If a pressure differential is observed and outside the permitted water column range during operation, corrective action will be taken within 8 hours.
Monitoring frequency and data Collection procedure:	Pressure differential readings shall be conducted daily during a period when the emission unit on this emission point is in operation. Records of the readings shall be maintained for five years.

### III. Justification

#### A. Background

This facility processes ingredients into frosting. The pollutant specific emission unit is the bag filters that control emissions from a specific source. The controlled exhaust flow rate is approximately 10,176 actual cubic feet per minute.

#### B. Rationale for Selection of Performance Indicator

The daily pressure differential readings were selected as the performance indicator because it is indicative of operation of the baghouse in a manner necessary to comply with the particulate emission standard. A pressure differential maintained between 0.5 inches of water column and 15 inches of water column during operation with the exception of a water column observation above 8 inches then the stack will be checked daily for no visible emissions. If an observation of differential pressure is observed outside this range, this would indicate a reduced performance of the baghouse. Therefore, the detection of out-of-range pressure differential is used as a performance indicator.

#### C. Rationale for Selection of Indicator Level

The daily differential pressure drop between 0.5 inches of water column and 15 inches of water column during operation with the exception of a water column observation above 8 inches then the stack will be checked daily for no visible emissions. If a pressure differential is observed to be outside the permitted pressure differential range, corrective action will be taken within 8 hours.

The pressure differential range noted above was selected as indicator ranges because if pressure differential were to be less than 0.5 or greater than 15 inches of water column, this would indicate a potential increase in particulate emissions due to decreased performance of the baghouses. If the baghouses are operating properly, pressure differentials in the above range will be maintained.

The selected QIP threshold for the baghouse is 6 excursions in a 6-month reporting period. If the QIP threshold is exceeded in a semiannual reporting period, a QIP will be developed and implemented.

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**Emission Point ID Number: 181**

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent thru this EP): 181A, 181B  
Emissions Control Equipment ID Number: CE181  
Emissions Control Equipment Description: Catalyst

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Emission Unit vented through this Emission Point: 181  
Emission Unit Description: Emergency Natural Gas Generator – 200 kW  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 200 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): 20%  
Authority for Requirement: LCPH ATI 6297/PTO 6135R1

Pollutant: PM-10  
Emission Limit(s): 0.01 lbs/hr  
Authority for Requirement: LCPH ATI 6297/ PTO 6135R1

Pollutant: Particulate Matter  
Emission Limit(s): 0.6 lbs/MMBTU, 0.01 lbs/hr  
Authority for Requirement: LCPH ATI 6297/ PTO 6135R1  
LCO 10.8(2) "a"

Pollutant: SO<sub>x</sub>  
Emission Limit(s): 500 ppmv  
Authority for Requirement: LCO 10.12(2)

Pollutant: NO<sub>x</sub>  
Emission Limit(s): 235 tpy  
Authority for Requirement: LCPH ATI 6267/ PTO 6135R1

Pollutant: NO<sub>x</sub>  
Emission Limit(s): 2.0 g/HP-hr<sup>1</sup>  
Authority for Requirement: LCPH ATI 6267/ PTO 6135R1  
40 CFR 60.4233(e)

Pollutant: VOC  
Emission Limit(s): 1.0 g/HP-hr<sup>1</sup>

Authority for Requirement: LCPH ATI 6267/ PTO 6135R1  
40 CFR 60.4233(e)

Pollutant: CO

Emission Limit(s): 4.0 g/HP-hr<sup>1</sup>

Authority for Requirement: LCPH ATI 6267/ PTO 6135R1  
40 CFR 60.4233(e)

<sup>1</sup>Emission limits based on 40 CFR 60 Subpart JJJJ Table 1- Emission Standards for Stationary Non-Emergency SI Engines  $\geq$ 100 HP (Except Gasoline and Rich Burn LPG), Stationary SI Landfill/ Digester Gas Engines, and Stationary Emergency Engines  $>$ 25HP.

This equipment is subject to the New Source Performance Standards, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines [40 CFR Part 60 Subpart JJJJ].

Authority for Requirement: 40 CFR Part 60 Subpart JJJJ

This equipment is subject to the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE NESHAP) [40 CFR Part 63 Subpart ZZZZ].

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ

### **Operational Limits & Requirements**

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

### **Control Equipment**

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

Authority for Requirement: LCPH ATI 6267/ PTO 6135R1

### **Operating Limits**

- A. This source shall be used for emergency use only.
- B. Fuel use in this unit shall be limited to natural gas fuel only.
- C. This source shall be limited to 100 hours per year of operation for maintenance checks and readiness testing.
- D. This source shall be limited to 500 hours per year of emergency operating time.
- E. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in §60.4243(d), is prohibited.
- F. The owner or operator shall meet the applicable General Provisions requirements of 40 CFR 60 Subpart A as indicated in 40 CFR §60.4246 to comply with LCO 10.9(2) "78."

- G. The owner or operator shall meet the Emission Standards for Owners and Operators requirements of 40 CFR §60.4233 to comply with LCCO 10.9(2) “78.”
- H. The owner or operator shall install and operate the generator according to manufacturer’s recommendations.
- I. The generator shall be equipped with a non-resettable hour meter.
- J. Refer to the requirements of Attachment A, Facility Bubble Permit Requirements.

Authority for Requirement: LCPH ATI 6267/ PTO 6135R1

**Operating Condition Monitoring and Recordkeeping**

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

- A. The owner or operator of the stationary spark ignition ICE shall follow the compliance requirements of 40 CFR §60.4243.
- B. The owner or operator of the stationary spark ignition ICE shall follow the notification, reporting, and recordkeeping requirements of 40 CFR §60.4245.
- C. The owner or operator shall record the number of hours the engine is operated each month for emergency purposes. Calculate and record the 12-month rolling total hours.
- D. The owner or operator shall record the number of hours the engine is operated each month for maintenance checks and readiness testing. Calculate and record the 12-month rolling total hours.
- E. Refer to the requirements of Attachment A, Facility Bubble Permit Requirements.

Authority for Requirement: LCPH ATI 6267/ PTO 6135R1

**Reporting Requirements**

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

- A. Refer to the requirements of Attachment A, Facility Bubble Permit Requirements.

Authority for Requirement: LCPH ATI 6267/ PTO 6135R1

**Emission Point Characteristics**

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

- Stack Height, (ft, from the ground): 72
- Stack Opening, (inches, dia.): 5
- Exhaust Flow Rate (scfm): 431
- Exhaust Temperature (°F): 1384
- Discharge Style: Vertical, unobstructed
- Authority for Requirement: LCPH ATI 6267/ PTO 6135R1

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

emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**Monitoring Requirements**

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

There are no monitoring requirements.

**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)

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**Emission Point ID Number: 305, 306, 309, 324, 325, 326****Associated Equipment**

EP	EU	EU Description	Raw Material	Rated Capacity
305	305	Dryer	Food Ingredients	3.5 tons/hr
306	306	Dryer	Food Ingredients	3.5 tons/hr
309	309A	Dryer	Food Ingredients	1.25 tons/hr
309	309B	Dryer	Food Ingredients	1.25 tons/hr
309	309E	Dryer	Food Ingredients	1.25 tons/hr
309	309F	Dryer	Food Ingredients	1.25 tons/hr
324	309C	Dryer	Food Ingredients	2.0 tons/hr
324	309D	Dryer	Food Ingredients	2.0 tons/hr
325	325	Dryer	Food Ingredients	3.5 tons/hr
326	326	Dryer	Food Ingredients	3.5 tons/hr

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## Applicable Requirements

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

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

**Emission Limits.**

EP	Pollutant	Emission Limit(s)	Authority for Requirement (ATI/PTO)
305, 306, 309, 324, 325, 326	VOC	226 tpy (Facility VOC Bubble Limit)	5980 / 5662 5981 / 5663 5982 / 5664 5983 / 5665 5984 / 5666 5985 / 5667

See Plant-Wide Conditions for Plant-Wide VOC limit.

**Operational Limits & Requirements**

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

See Plant-Wide Conditions section for Facility Operating Limits, Recordkeeping Requirements and Reporting Requirements that apply to this emission point.

**Emission Point Characteristics**

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

<b>EP</b>	<b>LCPH ATI/PTO</b>	<b>Stack Height (feet, above ground)</b>	<b>Discharge Style</b>	<b>Stack Opening (inches, dia.)</b>	<b>Exhaust Temperature (°F)</b>	<b>Exhaust Flowrate (scfm)</b>
305	5980 / 5662	53	Vertical, obstructed	41 x 28	100	23,660
306	5981 / 5663	58.20	Vertical, obstructed	41 x 27	100	23,660
309	5982 / 5664	55	Vertical, unobstructed	51 x 38	100	23,660
324	5983 / 5665	39.69	Vertical, unobstructed	38	100	11,357
325	5984 / 5666	35.50	Vertical, obstructed	24	100	7,571
326	5985 / 5667	35.50	Vertical, obstructed	24	100	7,571

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

**Monitoring Requirements**

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

Stack testing is not required at this time.

Opacity monitoring is not required at this time.

**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)

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**Emission Point ID Number: 307**

Associated Equipment

Associated Emission Unit ID Numbers: EU307

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Emission Unit vented through this Emission Point: EU307

Emission Unit Description: Backup Generator

Raw Material/Fuel: Diesel Fuel

Rated Capacity: 4.97 MMBtu/hr

## Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 20%

Authority for Requirement: LCPH ATI 4607 / PTO 4762  
LCO 10.7

Pollutant: PM-10

Emission Limit(s): 0.70 lb/hr, 0.35 tpy

Authority for Requirement: LCPH ATI 4607 / PTO 4762

Pollutant: Particulate Matter

Emission Limit(s): 0.70 lb/hr, 0.35 tpy

Authority for Requirement: LCPH ATI 4607 / PTO 4762

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

Emission Limit(s): 1.5 lb/MMBtu

Authority for Requirement: LCPH ATI 4607 / PTO 4762  
LCO 10.12(1)"b"

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

Emission Limit(s): 235 tpy

Authority for Requirement: LCPH ATI 4607 / PTO 4762  
See Plant-Wide Conditions for Plant-Wide NO<sub>x</sub> limit.

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.45 lb/hr, 0.22 tpy

Authority for Requirement: LCPH ATI 4607 / PTO 4762

This equipment is subject to the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE NESHAP) [40 CFR Part 63 Subpart ZZZZ].

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ

### **Operational Limits & Requirements**

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

See Plant-Wide Conditions section for Facility Operating Limits, Recordkeeping Requirements and Reporting Requirements that apply to this emission point.

#### **Operating Limits:**

- This source shall be limited to 1000 hours of operation per year calculated on a 12-month rolling total.
- Fuel use in this unit shall be either #1 or #2 grade diesel fuel only, with a maximum concentration of 0.5% sulfur by weight.

Authority for Requirement: LCPH ATI 4607 / PTO 4762

#### **Operating Condition Monitoring and Recordkeeping:**

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

- Total hours of engine operation per year calculated on a 12-month rolling total.
- Type of fuel burned and sulfur concentration by weight.

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

Authority for Requirement: LCPH ATI 4607 / PTO 4762

### **Emission Point Characteristics**

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

Stack Height (feet, from ground): 50

Discharge Style: Vertical

Stack Opening (inches in diameter): 12

Exhaust Temperature (°F): 702

Exhaust Flowrate (scfm): 3920

Authority for Requirement: LCPH ATI 4607 / PTO 4762

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

**Monitoring Requirements**

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

Stack testing is not required at this time.

**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: 313, 327**

**Associated Equipment**

EP	EU	EU Description	Raw Material	Rated Capacity
313	313A	Boiler #3	Natural Gas	48.25 MMBtu/hr
313	313B	Boiler #3	Propane	
327	327A	Boiler #4	Natural Gas	48.3 MMBtu/hr
327	327B	Boiler #4	Propane	

**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.*

EP	Pollutant	Emission Limit(s)	LCPH ATI/PTO
313 327	Opacity	20%	2533 / 4583R2 4009 / 4586R2 LCO 10.7
313 327	PM <sub>10</sub> /PM	0.37 lbs/hr	2533 / 4583R2 4009/4586R2
313 327	PM	0.3 lb/MMBtu <sup>(1)</sup>	2533 / 4583R2 4009 / 4586R2 LCO 10.12(1)"b" LCO 10.12(2)
	SO <sub>2</sub>	0.04 lbs/hr, 1.5 lbs/MMBTU (liquid fuel), 500 ppmv	
	NO <sub>x</sub>	235	2533 /4583R24009 / 4586R2 (facility NO <sub>x</sub> bubble)
313	CO	3.97 lbs/hr	2533 / 4583R2
327	CO	3.98 lbs/hr	4009 / 4586R2

<sup>1</sup> Combined boiler limit for emission points #001, 002, 313, and 327

This emission unit is subject to Subparts A (General Provisions, 40 CFR §60.1- 40 CFR §60.19) and Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units 40 CFR §60.40c - 40 CFR §60.48c).

Authority for Requirement: 40 CFR Part 60 Subpart Dc

LCCO ATI 2533 / PTO 4583R2

LCCO ATI 4009 / PTO 4586R2

**Operational Limits & Requirements**

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

See Plant-Wide Conditions, Facility NOx Bubble Conditions section for Facility Operating Limits, Recordkeeping Requirements and Reporting Requirements that apply to this emission point.

**Operating Condition Monitoring and Recordkeeping:**

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

- A. Refer to Attachment A, Facility Bubble Permit Requirements.
- B. The owner/operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day.<sup>1</sup>

<sup>1</sup> The facility may request monthly recordkeeping in lieu of daily records. Such a request must be submitted and approved by this office. The facility must specify how the total fuel usage will be apportioned to individual units if a single fuel flow meter is used to measure the amount of fuel burned in multiple boilers (EPA Determination Detail, Control Number 0200005).

Authority for Requirement: LCPH ATI 2533 / PTO 4583R2  
 LCPH ATI 4009 / PTO 4586R2

**Emission Point Characteristics**

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

EP	LCPH ATI/PTO	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flowrate (scfm)
313	2533/4583R2	104	Vertical, unobstructed	36	450	5669
327	4009/4586R2	104	Vertical, unobstructed	36	450	5689

Authority for Requirement: LCPH ATI 2533 / PTO 4583R2  
 LCPH ATI 4009 / PTO 4586R2

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

**Monitoring Requirements**

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

Stack testing is not required at this time.

**Opacity Monitoring:**

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity

shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required.

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: 321, 322**

**Associated Equipment**

EP	EU	EU Description	Raw Material	Rated Capacity
321	321A	Water Heater	Natural Gas	21 MMBtu/hr
321	321B	Water Heater	Propane	
322	322A	Water Heater	Natural Gas	21 MMBtu/hr
322	322B	Water Heater	Propane	

**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.*

EP	Pollutant	Emission Limit(s)	LCPH ATI/PTO
321 322	Opacity	20%	3886 / 4584R2 3887 / 4585R2 LCO 10.7
321 322	PM <sub>10</sub> /PM	0.16 lbs/hr	3886 / 4584R2 3887 / 4585R2
321 322	PM	0.6 lb/MMBtu	3886 / 4584R2 3887 / 4585R2
	SO <sub>2</sub>	0.02 lbs/hr 1.5 lbs/MMBTU (liquid fuel) 500 ppmv (natural gas)	LCO 10.8(2)"b" LCO 10.12(1)"b" LCO 10.12(2)
	NO <sub>x</sub>	235	3886 / 4584R2 3887 / 4585R2 (facility NO <sub>x</sub> bubble)
321 322	VOC	0.11 lbs/hr	3886 / 4584R2
321 322	CO	1.73 lbs/hr,	3886 / 4584R2 3887 / 4585R2

**Operational Limits & Requirements**

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

See Plant-Wide Conditions section for Facility Operating Limits, Recordkeeping Requirements and Reporting Requirements that apply to these emission points.

**Operating Condition Monitoring and Recordkeeping**

- A. Refer to Attachment A, Facility Bubble Permit Requirements

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

Authority for Requirement: LCPH ATI 3886/4584R2  
LCPH ATI 3887/PTO 4585R2

**Emission Point Characteristics**

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

EP	LCPH ATI/PTO	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, diameter)	Exhaust Temperature (°F)	Exhaust Flowrate (scfm)
321	3886/4584R2	57	Vertical, unobstructed	42	160	3932
322	3887/5485R2					

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

**Monitoring Requirements**

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

Stack testing is not required at this time.

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 330****Associated Equipment**

Associated Emission Unit ID Numbers: EU330

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Emission Unit vented through this Emission Point: EU330

Emission Unit Description: Standby Generator

Raw Material/Fuel: Diesel Fuel

Rated Capacity: 58.6 gallons/hr

## Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 20%

Authority for Requirement: LCPH ATI 4144 / PTO 4644R4  
LCO 10.7

Pollutant: Particulate Matter

Emission Limit(s): 0.6 lbs/MMBtu

Authority for Requirement: LCPH ATI 4144 / PTO 4644R4  
LCO 10.8(2)"a"

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

Emission Limit(s): 1.5 lb/MMBtu

Authority for Requirement: LCPH ATI 4144 / PTO 4644R4  
LCO 10.12(1)"b"

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

Emission Limit(s): 235 tpy

Authority for Requirement: LCPH ATI 4144 / PTO 4644R4  
See Plant-Wide Conditions for Plant-Wide NO<sub>x</sub> limit.

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 23 ppmvd or less at 15 percent O<sub>2</sub> or 70% or more CO reduction

Authority for Requirement: LCPH ATI 4144 / PTO 4644R4

**Operational Limits & Requirements**

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

See Plant-Wide Conditions section for Facility Operating Limits, Recordkeeping Requirements and Reporting Requirements that apply to this emission point.

A catalyst shall be installed to control emissions of volatile organic compounds and carbon monoxide. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in Operating Condition and Recordkeeping shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

**NSPS and NESHAP Applicability:**

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

- A. The New Source Performance Standards (NSPS) Subpart A, General Provisions and Subpart III, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines does not apply to this source because it was installed prior to 7/11/2005 and manufactured prior to 4/1/2006.
- B. This engine is of the source type regulated by the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (40 CFR Part 63, Subpart ZZZZ) and shall apply to this source pursuant to LCCO 10.9(4)“zzzz” and 567 IAC 23.1(4)“cz.” The engine is an existing reciprocating internal combustion engine located at an area source of HAP.

Authority for Requirement: LCPH ATI 4144 / PTO 4644R4

**Operating Limits:**

- A. This source shall be limited to 1000 hours per year based on a 12-month rolling period.
- B. Fuel use in this unit shall be either #1 or #2 grade diesel fuel only.
- C. The owner or operator shall use diesel fuel that meets the requirements of 40 CFR §80.510(b) for non-road diesel fuel.
- D. The owner or operator shall meet all applicable emission limitations, operating limitations, and other requirements listed under §63.6603.
- E. The owner or operator shall meet the fuel requirements listed under §63.6604.
- F. The owner or operator shall install and operate the generator according to manufacturer’s recommendations.
- G. Refer to the requirements of Attachment A, Facility Bubble Permit Requirements.

Authority for Requirement: LCPH ATI 4144 / PTO 4644R4

**Operating Condition Monitoring and Recordkeeping:**

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

- A. Record the number of hours the engine operates each month. Calculate and record the 12-month rolling totals.
  - B. The owner or operator shall complete all recordkeeping and monitoring as required by NESHAP 40 CFR §63.6635, §63.6640, and §63.6655.
  - C. Refer to the requirements of Attachment A, Facility Bubble Permit Requirement.
- Authority for Requirement: LCPH ATI 4144 / PTO 4644R4

**Continuous Emission Monitoring**

- A. The owner or operator shall meet all monitoring requirements specified under 40 CFR §63.6605, §63.6625, §63.6635, and/or §63.6640.

**Reporting Requirements:**

The following information shall be submitted to this department:

- A. The owner or operator shall submit reports as required by 40 CFR §63.6650.
- B. Refer to the requirements of Attachment A, Facility Bubble Permit Requirement.

**Emission Point Characteristics**

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

Stack Height (feet from ground): 50  
Discharge Style: Vertical, unobstructed  
Stack Opening (inches in diameter): 12  
Exhaust Temperature (°F): 981  
Exhaust Flowrate (scfm): 6381  
Authority for Requirement: LCPH ATI 4144 / PTO 4644R4

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

**Monitoring Requirements**

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

**EP 330**

Pollutant – CO  
Stack test to be completed in accordance with §63.6620  
Test Method – 40 CFR 60, Appendix A, Method 10  
Authority for Requirement: LCPH ATI 4144 / PTO 4644R4

Opacity monitoring is not required at this time.

**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)

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**Emission Point ID Number: 339**

Associated Equipment

Associated Emission Unit ID Numbers: EU339  
Emissions Control Equipment ID Number: CE339  
Emissions Control Equipment Description: Cartridge Filter

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Emission Unit vented through this Emission Point: EU339  
Emission Unit Description: Material Conditioner  
Raw Material/Fuel: Starch  
Rated Capacity: 26.5 ton/hr

## Applicable Requirements

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

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

Pollutant: Opacity  
Emission Limit(s): 20%  
Authority for Requirement: LCPH ATI 5724 / PTO 5542R1  
LCO 10.7

Pollutant: PM-10  
Emission Limit(s): 0.77 lbs/hr  
Authority for Requirement: LCPH ATI 5724 / PTO 5542R1

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/dscf, 0.77 lb/hr  
Authority for Requirement: LCPH ATI 5724 / PTO 5542R1  
567 IAC 23.3(2)"a"(2)  
LCO 10.9(1)"a"

**Operational Limits & Requirements**

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

**Control Device:**

Cartridge filters shall be installed to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in Operating Condition Monitoring and Recordkeeping shall be installed, maintained and operating during the operation of the emission unit and control device at all times. Authority for Requirement: LCPH ATI 5724 / PTO 5542R1

### **Operating Limits**

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

- A. The differential pressure drop across the cartridge filters, CE 339, shall be maintained between 0.5 and 12 inches of water.
- B. The control equipment shall be maintained according to the manufacturer's specifications and good operating practices.

Authority for Requirement: LCPH ATI 5724 / PTO 5542R1

### **Operating Condition Monitoring and Recordkeeping**

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

- A. Monitor and record the differential pressure across the cartridge filters, CE 339, on a daily basis while the control equipment and emission unit are in operation.
- B. Monitor and record any maintenance and repair completed to the control equipment.
- C. The owner or operator shall monitor or record 'no visible emissions' observations on a weekly basis. An exceedance of 'no visible emissions' will require the owner/operator to promptly investigate the emission unit, make corrections or equipment associated with the exceedance, and record the corrective action taken.

Authority for Requirement: LCPH ATI 5724 / PTO 5542R1

### **Emission Point Characteristics**

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

Stack Height (feet from ground): 59

Discharge Style: Vertical, unobstructed

Stack Opening (inches in diameter): 25

Exhaust Temperature (°F): 93

Exhaust Flowrate (scfm): 12,000

Authority for Requirement: LCPH ATI 5724 / PTO 5542R1

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

### **Monitoring Requirements**

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

Pollutant – PM

1st Stack Test to be Completed by – December 15, 2015

Test Method – Method 5 or approved alternative

**Opacity Monitoring:**

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

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

Authority for Requirement: 567 IAC 22.108(14)

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

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

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

**Compliance Assurance Monitoring Plan**

**CAM Plan for EP 339 Baghouse**

I. Background

A. Emissions Unit

Description: Material Conditioner  
Identification: EU339  
Facility: General Mills Operations, Inc.  
Cedar Rapids, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: Permit to Operate 5542R1  
Particulate emission limit: 0.1 gr/scf, 0.77 lbs/hr PM/PM-10  
Opacity emission limit: 20%  
Current Monitoring requirements: Weekly opacity, daily pressure differential readings on the unit.

C. Control Technology: Cartridge Filters

## II. Monitoring Approach

### A. Indicator

Daily pressure differential checks will be used as an indicator on the cartridge filters.

### B. Measurement Approach

Pressure drop will be checked daily to ensure that pressure differential is maintained between 0.5 inches of water column and 12 inches of water column during material handling operation of the unit.

### C. Indicator Range

Pressure differential shall be maintained between 0.5 inches of water column and 12 inches of water column during operation.

### D. QIP (Quality Improvement Plan) Threshold

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

### E. Performance Criteria

Data representativeness: Pressure differential maintained between 0.5 inches of water column and 12 inches of water column during operation.

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

QA/QC practices and criteria: The facility shall check the pressure drop daily when the emission unit on this emission point is in operation. If a pressure differential is observed and outside the permitted water column range during operation, corrective action will be taken within 8 hours.

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

## III. Justification

### A. Background

This facility processes ingredients into fruit snacks. The pollutant specific emission unit is the cartridge filters that control emissions from a specific source. The controlled exhaust flow rate is approximately 12,000 standard cubic feet per minute.

### B. Rationale for Selection of Performance Indicator

The daily pressure differential readings were selected as the performance indicator because it is indicative of operation of the cartridge filters in a manner necessary to comply with the particulate emission standard. A pressure differential maintained between 0.5 inches of water column and 12 inches of water column during operation would indicate a reduced performance of the cartridge filters. Therefore, the detection of out-of-range pressure differential is used as a performance indicator.

C. Rationale for Selection of Indicator Level

The daily differential pressure drop between 0.5 inches of water column and 12 inches of water column during operation was selected because if a pressure differential is observed to be outside the permitted pressure differential, corrective action will be taken within 8 hours.

The pressure differential range noted above was selected as indicator ranges because if pressure differential were to be less than 0.5 or greater than 12 inches of water column, this would indicate a potential increase in particulate emissions due to decreased performance of the cartridge filters. If the cartridge filters are operating properly, pressure differentials in the above range will be maintained.

The selected QIP threshold for the baghouse is 6 excursions in a 6-month reporting period. If the QIP threshold is exceeded in a semiannual reporting period, a QIP will be developed and implemented.

**Emission Point ID Number: 400, 500, 501, 502**

**Associated Equipment**

EP	EU	EU Description	Raw Material	Rated Capacity	CEID	CE Description
400	400	Cooling Tower	Cooling	103,200 gal/hr	400	Drift Eliminators
500	500	C-1 Condenser #2	Cooling	42,900 gal/hr	500	Drift Eliminators
501	501	C-1 Condenser #3	Cooling	42,900 gal/hr	501	Drift Eliminators
502	502	C-1 Condenser #4	Cooling	103,200 gal/hr	502	Drift Eliminators

**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.*

EP	Pollutant	Emission Limit(s)	LCPH ATI/PTO
400 500 501 502	Opacity	20%	5509/5377 5688/5522 5862/5755 6384/ 6117R1 LCO 10.7
400 502	PM <sub>10</sub> /PM	0.15 lbs/hr	5509/5377 6384/6117R1
500 501	PM <sub>10</sub> /PM	0.06 lbs/hr	5688/5522 5862/5755
400 500 501 502	PM	0.1 gr/scf	5509/5377 5688/5522 5862/5755 6384/6117R1 LCO 10.9(1)"a"

**Operational Limits & Requirements**

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

**Control Device**

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

Authority for Requirements: LCPH ATI 5509/ PTO 5377  
 LCPH ATI 5688/ PTO 5522  
 LCPH ATI 5862/ PTO 5755

**Operating Limits**

- A. The total dissolved solids (TDS) of the water used shall not exceed 3500 ppm.
- B. The control efficiency of the drift eliminator (gallons of drift per gallon of cooling water flow) shall meet or exceed 0.005%.
- C. Chromium based water treatment chemicals shall not be used in the emission unit.
- D. The water treatment chemicals used shall not contain VOC or Hazardous Air Pollutants.

Authority for Requirements: LCPH ATI 5509/ PTO 5377  
 LCPH ATI 5688/ PTO 5522  
 LCPH ATI 5862/ PTO 5755  
 LCPH ATI 6384/ PTO 6117R1

**Operating Condition Monitoring and Recordkeeping**

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

- A. On a quarterly basis, the cooling water shall be analyzed to determine the total dissolved solids content while the unit is in operation.
- B. Maintain Material Safety Data Sheets for all water treatment chemicals used in this emission unit.
- C. Maintain documentation of the designed control efficiency for the drift eliminator.

Authority for Requirements: LCPH ATI 5509/ PTO 5377  
 LCPH ATI 5688/ PTO 5522  
 LCPH ATI 5862/ PTO 5755  
 LCPH ATI 6384/ PTO 6117R1

**Emission Point Characteristics**

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

EP	LCPH ATI/PTO	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flowrate (acfm)
400	5509/5377	59	Vertical, unobstructed	144	78	208,490
500 501	5688/5522 5862/5755	46	Vertical, unobstructed	66	78	92,200
502	6384/ 6117R1	43	Vertical, unobstructed	144	78	208,490

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

emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**Monitoring Requirements**

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

Pollutant – TDS<sup>(1)</sup>

Testing completed once each quarter

Test Method – According to IDNR Method

Authority for Requirement – LCPH ATI 5509/ PTO 5377

<sup>1</sup> Performance testing is required to be completed to demonstrate compliance with the Total Dissolved Solids (TDS) Concentration of 3,500 mg/L once each quarter (refer to Operating Condition Monitoring and Recordkeeping).

**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: 310, 600, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 744, 800**

**Associated Equipment**

EP	EU	EU Description	Raw Material	Rated Capacity	CEID	CE Description
310	310	Receiver	Ingredient	15 tons/hr	310	Baghouse
600	600	Product Receiver	Ingredient	3 tons/hr	600	Baghouse
700	700	Receiver	Ingredient	21.9 tons/hr	700	Baghouse
701	701	Receiver	Ingredient	12 tons/hr	701	Baghouse
702	702	Receiver	Ingredient	9 tons/hr	702	Cartridge Filter
703	703	Receiver	Ingredient	9 tons/hr	703	Cartridge Filter
704	704	Receiver	Ingredient	9 tons/hr	704	Cartridge Filter
705	705	Receiver	Ingredient	3 tons/hr	705	Cartridge Filter
706	706	Receiver	Ingredient	3 tons/hr	706	Cartridge Filter
707	707	Receiver	Ingredient	3 tons/hr	707	Cartridge Filter
708	708	Receiver	Ingredient	3 tons/hr	708	Cartridge Filter
709	709	Hopper	Ingredient	3 tons/hr	709	Cartridge Filter
710	710	Bag Dump	Ingredient	2 tons/hr	710	Baghouse
711	711	Bag Dump	Ingredient	2 tons/hr	711	Baghouse
712	712	Bag Dump	Ingredient	2 tons/hr	712	Baghouse
713	713	Receiver	Ingredient	3 tons/hr	713	Cartridge Filter
714	714	Receiver	Ingredient	3 tons/hr	714	Cartridge Filter
715	715A	Mixer	Ingredient	9 tons/hr	715	Cartridge Filter
715	715B	Product Receiver	Ingredient	9 tons/hr		
715	715C	Product Receiver	Ingredient	9 tons/hr		
716	716A	Product Receiver	Ingredient	4.53 tons/hr	716	Baghouse
716	716B	Product Receiver	Ingredient	4.53 tons/hr		
716	716C	Blower	Ingredient	4.53 tons/hr		
716	716D	Blower	Ingredient	4.53 tons/hr		
717	717A	Blower	Ingredient	3.6 tons/hr	717	Baghouse
717	717B	Bin	Ingredient	3.6 tons/hr		
717	717C	Bin	Ingredient	3.6 tons/hr		
718	718	Blower	Ingredient	3.6 tons/hr	718	Baghouse
719	719	Receiver	Ingredient	3.6 tons/hr	719	Cartridge Filter
720	720	Super Sack	Ingredient	3 tons/hr	720	Baghouse

721	721	Receiver	Ingredient	3 tons/hr	721	Baghouse
722	722	Receiver	Ingredient	3 tons/hr	722	Baghouse
723	723	Receiver	Ingredient	3 tons/hr	723	Baghouse
724	724	Air Lock	Ingredient	1 tons/hr	724	Cartridge Filters
725	725	Air Classifier	Ingredient	6.5 tons/hr	725	Baghouse
726	726A	Bin	Ingredient	6.5 tons/hr	726	Baghouse
726	726B	Bin	Ingredient	6.5 tons/hr		
726	726C	Bin	Ingredient	6.5 tons/hr		
727	727A	Product Receiver	Ingredient	6.5 tons/hr	727	Baghouse
727	727B	Product Receiver	Ingredient	6.5 tons/hr		
728	728A	Bins	Ingredient	6.5 tons/hr	728	Baghouse
728	728B	Bins	Ingredient	6.5 tons/hr		
729	729	Receiver	Ingredient	3.6 tons/hr	729	Cartridge Filter
730	730	Receiver	Ingredient	3 tons/hr	730	Cartridge Filter
731	731	Receiver	Ingredient	3 tons/hr	731	Cartridge Filter
732	732	Receiver	Ingredient	3 tons/hr	732	Cartridge Filter
733	733	Hopper	Ingredient	9 tons/hr	733	Baghouse
734	734	Hopper	Ingredient	9 tons/hr	734	Cartridge Filters
735	735	Hopper	Ingredient	9 tons/hr	735	Cartridge Filters
736	736	Hopper	Ingredient	3 tons/hr	736	Baghouse
737	737	Multiple Pickups	Ingredient	3.6 tons/hr	737	Baghouse
738	738	Hopper	Ingredient	3.6 tons/hr	738	Baghouse
739	739	Weigh Station	Ingredient	.1 tons/hr	739	Cartridge Filter
740	740	Bead Blaster	Ingredient	0.025 tons/hr	740	Cartridge Filter
741	741	Receiver	Ingredient	6 tons/hr	741	Baghouse
742	742	Grinder	Ingredient	3 tons/hr	742	Cartridge Filter
744	744	Receiver	Ingredient	0.5 tons/hr	744	Baghouse
800	800	Receiver	Ingredient	4.5 tons/hr	800	Baghouse

## Applicable Requirements

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

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

EP	Pollutant	Emission Limit(s)	LCPH ATI/PTO
310	Opacity	No Visible Emissions <sup>(1)</sup>	6038/5771
600			6390/6118
702			5882/5891
703			5883/5892
704			5884/5893

705			5885/5894
706			5886/5721
707			5887/5722
708			5888/5723
709			5889/5724
710			5890/5725
711			5891/5726
712			5892/5895
713			5893/5727
714			5894/5896
715			5895/5897
716			6027/5898
717			5897/5899
718			5898/5900
719			5899/5901
720			5900/5902
721			5901/5728
722			5902/5729
723			5903/5903
724			5904/5730R1
725			5905/5904
726			5906/5905
727			5907/5731
728			5908/5732
729			5909/5733
730			5910/5734
731			5911/5735
732			5912/5736
733			5949/5906
734			5950/5907R1
735			5951/5908R1
736			5952/5909R1
737			5953/5737
738			5954/5910
739			5970/5911
740			5971/5912
741			6111/5922
742			6177/5951
744			6262/6083
800			6391/6218
			LCO 10.5(3) "b"
310	PM <sub>10</sub> /PM	0.05 lbs/hr	6038/5771
717			5897/5899
720			5900/5902
800			6391/6218
310	PM	0.1 gr/scf	6038/5771
600			6390/6118

700			5828/5619
701			5830/5620
702			5882/5891
703			5883/5892
704			5884/5893
705			5885/5894
706			5886/5721
707			5887/5722
708			5888/5723
709			5889/5724
710			5890/5725
711			5891/5726
712			5892/5895
713			5893/5727
714			5894/5896
715			5895/5897
716			6027/5898
717			5897/5899
718			5898/5900
719			5899/5901
720			5900/5902
721			5901/5728
722			5902/5729
723			5903/5903
724			5904/5730R1
725			5905/5904
726			5906/5905
727			5907/5731
728			5908/5732
729			5909/ 5733
730			5910/5734
731			5911/5735
732			5912/5736
733			5949/5906
734			5950/5907R1
735			5951/5908R1
736			5952/5909R1
737			5953/5737
738			5954/5910
739			5970/5911
740			5971/5912
741			6111/5922
742			6177/5951
744			6262/6083
800			6391/6218
			LCO 10.9(1)"a"
700	PM	0.10 lbs/hr	5828/5619

701	PM	0.01 lbs/hr	5830/5620
702	PM/PM10	0.03 lbs/hr	5882/ 5891
703			5883/5892
704			5884/5893
705			5885/5894
722			5902/5729
723			5903/5903
740			5971/5912
706	PM/PM10	0.02 lbs/hr	5886/5721
707			5887/5722
708			5888/5723
709			5889/5724
713			5893/5727
714			5894/5896
718			5898/5900
719			5899/5901
729			5909/5733
730			5910/5734
731			5911/5735
732			5912/5736
739	5970/5911		
710	PM/PM10	0.01 lbs/hr	5890/5725
711			5891/5726
712			5892/5895
721			5901/5728
725			5905/5904
715	PM/PM10	0.014 lbs/hr	5895/5897
716	PM/PM10	0.16 lbs/hr	6027/5898
728			5908/5732
741			6111/5922
724	PM/PM10	0.003 lbs/hr	5904/5730R1
733			5949/5906
734			5950/5907R1
735			5951/5908R1
738			5954/5910
726	PM/PM10	0.08 lbs/hr	5906/5905
727			5907/5731
736	PM/PM10	0.0003 lbs/hr	5952/5909R1
737	PM/PM10	0.17 lbs/hr	5953/5737
600	PM/PM10	0.07 lbs/hr	6390/6118
742			6177/5951
744	PM/PM10	0.04 lbs/hr	6262/6083

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

## **Operational Limits & Requirements**

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

### **Control Device**

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

Authority for Requirements:

LCPH ATI 6390 / PTO 6118	LCPH ATI 5907 / PTO 5731
LCPH ATI 6038 / PTO 5771	LCPH ATI 5908 / PTO 5732
LCPH ATI 5890 / PTO 5725	LCPH ATI 5949 / PTO 5906
LCPH ATI 5891 / PTO 5726	LCPH ATI 5953 / PTO 5737
LCPH ATI 5892 / PTO 5895	LCPH ATI 5952 / PTO 5909R1
LCPH ATI 6027 / PTO 5898	LCPH ATI 5954 / PTO 5910
LCPH ATI 5897 / PTO 5899	LCPH ATI 5971 / PTO 5912
LCPH ATI 5898 / PTO 5900	LCPH ATI 6111 / PTO 5922
LCPH ATI 5905 / PTO 5904	LCPH ATI 6262 / PTO 6083
LCPH ATI 5906 / PTO 5905	LCPH ATI 6391 / PTO 6218

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

Authority for Requirements: LCPH ATI 5828/ PTO 5619

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

Authority for Requirements: LCPH ATI 5830/ PTO 5620

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

Authority for Requirements:

LCPH ATI 5882 / PTO 5891	LCPH ATI 5888 / PTO 5723
LCPH ATI 5883 / PTO 5892	LCPH ATI 5889 / PTO 5724
LCPH ATI 5884 / PTO 5893	LCPH ATI 5893 / PTO 5727
LCPH ATI 5885 / PTO 5894	LCPH ATI 5894 / PTO 5896
LCPH ATI 5886 / PTO 5721	LCPH ATI 5895 / PTO 5897
LCPH ATI 5887 / PTO 5722	LCPH ATI 5899 / PTO 5901

LCPH ATI 5900 / PTO 5902  
LCPH ATI 5901 / PTO 5728  
LCPH ATI 5902 / PTO 5729  
LCPH ATI 5903 / PTO 5903  
LCPH ATI 5950 / PTO 5907R1  
LCPH ATI 5909 / PTO 5733  
LCPH ATI 5910 / PTO 5734

LCPH ATI 5911 / PTO 5735  
LCPH ATI 5912 / PTO 5736  
LCPH ATI 5970 / PTO 5911  
LCPH ATI 6177 / PTO 5951  
LCPH ATI 5904 / PTO 5730  
LCPH ATI 5951 / PTO 5908R1

**Operating Limits**

A. The differential pressure measured across the baghouse, CE 310, shall be maintained between 0.1 inches of water column and 8 inches of water column with the exception of unit startup. The differential pressure measured across the baghouse during the first five minutes of startup shall be maintained between 0.1 inches of water column and 13 inches of water column.

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

Authority for Requirements: LCPH ATI 6038 / PTO 5771

A. The pressure drop across the [control equipment] shall be maintained between 0.1 inches of water column and 8 inches of water column.

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

Authority for Requirements:

LCPH ATI 6390 / PTO 6118  
LCPH ATI 5828 / PTO 5619  
LCPH ATI 5830 / PTO 5620  
LCPH ATI 5882 / PTO 5891  
LCPH ATI 5883 / PTO 5892  
LCPH ATI 5884 / PTO 5893  
LCPH ATI 5885 / PTO 5894  
LCPH ATI 5886 / PTO 5721  
LCPH ATI 5887 / PTO 5722  
LCPH ATI 5888 / PTO 5723  
LCPH ATI 5889 / PTO 5724  
LCPH ATI 5890 / PTO 5725  
LCPH ATI 5891 / PTO 5726  
LCPH ATI 5892 / PTO 5895  
LCPH ATI 5893 / PTO 5727  
LCPH ATI 5894 / PTO 5896  
LCPH ATI 5895 / PTO 5897  
LCPH ATI 6027 / PTO 5898  
LCPH ATI 5897 / PTO 5899  
LCPH ATI 5898 / PTO 5900  
LCPH ATI 5899 / PTO 5901  
LCPH ATI 5900 / PTO 5902  
LCPH ATI 5901 / PTO 5728

LCPH ATI 5902 / PTO 5729  
LCPH ATI 5903 / PTO 5903  
LCPH ATI 5904 / PTO 5730R1  
LCPH ATI 5905 / PTO 5904  
LCPH ATI 5906 / PTO 5905  
LCPH ATI 5907 / PTO 5731  
LCPH ATI 5908 / PTO 5732  
LCPH ATI 5909 / PTO 5733  
LCPH ATI 5910 / PTO 5734  
LCPH ATI 5911 / PTO 5735  
LCPH ATI 5912 / PTO 5736  
LCPH ATI 5949 / PTO 5906  
LCPH ATI 5950 / PTO 5907R1  
LCPH ATI 5951 / PTO 5908R1  
LCPH ATI 5952 / PTO 5909R1  
LCPH ATI 5953 / PTO 5737  
LCPH ATI 5954 / PTO 5910  
LCPH ATI 5970 / PTO 5911  
LCPH ATI 5971 / PTO 5912  
LCPH ATI 6111 / PTO 5922  
LCPH ATI 6177 / PTO 5951  
LCPH ATI 6262 / PTO 6083  
LCPH ATI 6391 / PTO 6218

Operation parameters delineated at the time of final compliance inspections and testing shall be documented and become incorporated into the conditions of the final Permit to Operate.

**Operating Condition Monitoring and Recordkeeping**

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

- A. Monitor and record the differential pressure on the [control equipment] on a weekly basis while the control equipment and emission unit are in operation.
- B. Monitor and record any maintenance and repair completed on the control equipment.

Authority for Requirements:

- |                          |                            |
|--------------------------|----------------------------|
| LCPH ATI 6038 / PTO 5771 | LCPH ATI 5902 / PTO 5729   |
| LCPH ATI 6390 / PTO 6118 | LCPH ATI 5903 / PTO 5903   |
| LCPH ATI 5828 / PTO 5619 | LCPH ATI 5904 / PTO 5730R1 |
| LCPH ATI 5830 / PTO 5620 | LCPH ATI 5905 / PTO 5904   |
| LCPH ATI 5882 / PTO 5891 | LCPH ATI 5906 / PTO 5905   |
| LCPH ATI 5883 / PTO 5892 | LCPH ATI 5907 / PTO 5731   |
| LCPH ATI 5884 / PTO 5893 | LCPH ATI 5908 / PTO 5732   |
| LCPH ATI 5885 / PTO 5894 | LCPH ATI 5909 / PTO 5733   |
| LCPH ATI 5886 / PTO 5721 | LCPH ATI 5910 / PTO 5734   |
| LCPH ATI 5887 / PTO 5722 | LCPH ATI 5911 / PTO 5735   |
| LCPH ATI 5888 / PTO 5723 | LCPH ATI 5912 / PTO 5736   |
| LCPH ATI 5889 / PTO 5724 | LCPH ATI 5950 / PTO 5907R1 |
| LCPH ATI 5890 / PTO 5725 | LCPH ATI 5951 / PTO 5908R1 |
| LCPH ATI 5891 / PTO 5726 | LCPH ATI 5952 / PTO 5909R1 |
| LCPH ATI 5892 / PTO 5895 | LCPH ATI 5953 / PTO 5737   |
| LCPH ATI 5893 / PTO 5727 | LCPH ATI 5954 / PTO 5910   |
| LCPH ATI 5894 / PTO 5896 | LCPH ATI 5970 / PTO 5911   |
| LCPH ATI 5895 / PTO 5897 | LCPH ATI 5971 / PTO 5912   |
| LCPH ATI 6027 / PTO 5898 | LCPH ATI 6111 / PTO 5922   |
| LCPH ATI 5897 / PTO 5899 | LCPH ATI 6177 / PTO 5951   |
| LCPH ATI 5899 / PTO 5901 | LCPH ATI 6262 / PTO 6083   |
| LCPH ATI 5900 / PTO 5902 | LCPH ATI 6391 / PTO 6218   |
| LCPH ATI 5901 / PTO 5728 |                            |

**Emission Point Characteristics**

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

EP	LCPH ATI/PTO	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flowrate (scfm)
310	6038/5771	NA	Inside Vented	NA	145	1520

600	6390/6118	NA	Inside Vented	NA	70	2000
700	5828/5619	NA	Inside Vented	NA	NA	3000
701	5830/5620	NA	Inside Vented	NA	100	320
702	5882/5891	NA	Inside Vented	NA	70	1000
703	5883/5892	NA	Inside Vented	NA	Ambient	1000
704	5884/5893					
705	5885/5894					
722	5902/5729					
723	5903/5903					
706	5886/5721	NA	Inside Vented	NA	Ambient	500
707	5887/5722					
713	5893/5727					
729	5909/5733					
730	5910/5734					
731	5911/5735					
732	5912/5736					
708	5888/5723	NA	Inside Vented	NA	Ambient	700
709	5889/5724					
714	5894/5896					
718	5898/5900					
719	5899/5901					
710	5890/5725	NA	Inside Vented	NA	Ambient	300
711	5891/5726					
712	5892/5895					
721	5901/5728					
715	5895/5897	NA	Inside Vented	NA	Ambient	400
716	6027/5898	NA	Inside Vented	NA	120	4700
717	5897/5899	NA	Inside Vented	NA	Ambient	1500
720	5900/5902	NA	Inside Vented	NA	Ambient	1600
724	5904/5730R1	NA	Inside Vented	NA	Ambient	100
733	5949/5906					
734	5950/5907R1					
735	5951/5908R1					
738	5954/5910					
725	5905/5904	NA	Inside Vented	NA	Ambient	4000
726	5906/5905	NA	Inside Vented	NA	Ambient	2400
727	5907/5731	NA	Inside Vented	NA	Ambient	2200
728	5908/5732	NA	Inside Vented	NA	Ambient	4600
736	5952/5909R1	NA	Inside Vented	NA	Ambient	<10
737	5953/5737	NA	Inside Vented	NA	Ambient	5000
739	5970/5911	NA	Inside Vented	NA	Ambient	560
740	5971/5912	NA	Inside Vented	NA	Ambient	850
741	6111/5922	NA	Inside Vented	NA	70	4800
742	6177/5951	NA	Inside Vented	NA	100	2000
744	6262/6083	NA	Inside Vented	NA	70	1254
800	6391/6218	NA	Inside Vented	NA	70	1500

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

**Monitoring Requirements**

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

Stack testing is not required at this time.

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

**Facility Maintained Operation & Maintenance Plan Required?** Yes <sup>1</sup> No

<sup>1</sup>Only required for EP 700, 716, 726, 727, 728, 737, 741, 742. All other indoor sources do not require O&M plans at this time.

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

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

*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)

## **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, 7900 Hickman Rd, Suite #1, Windsor Heights, Iowa 50324, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to U.S. EPA Region VII, Attention: Chief of Air Permits, 11201 Renner Blvd., Lenexa, KS 66219. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

### **G3. Certification Requirement for Title V Related Documents**

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

### **G4. Annual Compliance Certification**

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. *567 IAC 22.108 (15)"e"*

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

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

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

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

7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

#### **G13. Hazardous Release**

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

#### **G14. Excess Emissions and Excess Emissions Reporting Requirements**

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a

violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. 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.

*567 IAC 22.110(1)*

- 2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*
- 3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*
- 4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*
- 5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

**G18. Duty to Modify a Title V Permit**

1. Administrative Amendment.

- a. An administrative permit amendment is a permit revision that does any of the following:

- i. Correct typographical errors
    - ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
    - iii. Require more frequent monitoring or reporting by the permittee; or
    - iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.
  - b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.
  - c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.
2. Minor Title V Permit Modification.
- a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:
    - i. Do not violate any applicable requirement;
    - ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;
    - iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;
    - iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;
    - v. Are not modifications under any provision of Title I of the Act; and
    - vi. Are not required to be processed as significant modification under rule 567 - 22.113(455B).
  - b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
    - i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
    - ii. The permittee's suggested draft permit;
    - iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
    - iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).
  - c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a"

to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

### 3. Significant Title V Permit Modification.

Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, as those requirements that apply to Title V issuance and renewal.

The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. *567 IAC 22.111-567 IAC 22.113*

#### **G19. Duty to Obtain Construction Permits**

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

#### **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 substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

#### **G24. Permit Reopenings**

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*
2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as

practicable, but not later than 18 months after the promulgation of such standards and regulations.

- a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
  - b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.
  - c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a", 567 IAC 22.108(17)"b"*
3. A permit shall be reopened and revised under any of the following circumstances:
- a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;
  - b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
  - c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
  - d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
  - e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*
4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*
5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 22.114(3)*

## **G25. Permit Shield**

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:
  - a. Such applicable requirements are included and are specifically identified in the permit;  
or
  - b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.

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

**G26. Severability**

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

**G27. Property Rights**

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

**G28. Transferability**

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

**G29. Disclaimer**

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

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

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. If the owner or operator does not provide timely notice to the department, the department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department's request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically

altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

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

Stack Test Review Coordinator  
Iowa DNR, Air Quality Bureau  
7900 Hickman Road, Suite #1  
Windsor Heights, IA 50324  
(515) 725-9545

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

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

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

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

*567 IAC 26.1(1)*

### **G32. Contacts List**

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

Chief of Air Permits  
U.S. EPA Region 7  
Air Permits and Compliance Branch  
11201 Renner Blvd.  
Lenexa, KS 66219  
(913) 551-7020

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

Chief, Air Quality Bureau  
Iowa Department of Natural Resources  
7900 Hickman Road, Suite #1  
Windsor Heights, IA 50324  
(515) 725-9500

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

#### **Field Office 1**

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

#### **Field Office 2**

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

#### **Field Office 3**

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

#### **Field Office 4**

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

#### **Field Office 5**

#### **Field Office 6**

7900 Hickman Road, Suite #200  
Windsor Heights, IA 50324  
(515) 725-0268

**Polk County Public Works Dept.**  
Air Quality Division  
5885 NE 14th St.  
Des Moines, IA 50313  
(515) 286-3351

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

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

**Appendix A: 40 CFR 60 Subpart Dc**  
**Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional**  
**Steam Generating Units**

**Appendix B: 40 CFR Subpart III**  
**Subpart III - New Source Performance Standards for Stationary Compression Ignition**  
**Internal Combustion Engines.**

**Appendix C: 40 CFR 60 Subpart JJJJ**  
**Subpart JJJJ - Standards of Performance Standards for Stationary Spark Ignition**  
**Internal Combustion Engines.**

**Appendix D: 40 CFR 63 Subpart ZZZZ**  
**Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.**