

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

**Name of Permitted Facility: International Paper Cedar River Mill**  
**Facility Location: 4600 C Street SW Cedar Rapids, IA 52404**  
**Air Quality Operating Permit Number: 15-TV-005-M001**  
**Expiration Date: April 20, 2020**  
**Permit Renewal Application Deadline: October 20, 2019**

**EIQ Number: 92-9025**  
**Facility File Number: 57-01-153**

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**Responsible Official**

**Name: Cliff Murphy**  
**Title: Mill Manager**  
**Mailing Address: 4600 C Street SW**  
**Phone #: 319-298-2422**

**Permit Contact Person for the Facility**

**Name: Rick O'Neal**  
**Title: EH&S Manager**  
**Mailing Address: 4600 C Street SW**  
**Phone #: 319-558-5029**

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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**

  
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Lori Hanson, Supervisor of Air Operating Permits Section

12/28/15

Date

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## Abbreviations

acfm .....	actual cubic feet per minute
BHP .....	brake horsepower
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
I .....	inside-vent inside building
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
pd .....	passive displacement
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
SWT .....	Scale Weight Tons
TPY .....	tons per year
V .....	Vertical (without rain cap or with unobstructing rain cap)
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: International Paper Cedar River Mill  
 Permit Number: 15-TV-005-M001

Facility Description: Paperboard Mills (SIC 2631); Paper (except Newsprint) Mills (NAICS 322121)

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## Equipment List

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Emission Point Number	Emission Unit Number	Emission Unit Description	LCPH Construction Permit Number
104	100	100 Pulper – Paper machine #1 - Pulper	6627
105	100	Fourdrinier Exhaust Fan	6628
107	100	Roof Exhaust Fan	6630
108	100	Roof Exhaust Fan	6631
109	100	Roof Exhaust Fan	6632
110	100	Fourdrinier Exhaust Fan	6636
111	100	Roof Exhaust Fan	6637
112	100	Roof Exhaust Fan	6638
113	100	Roof Exhaust Fan	6639
114	100	Roof Exhaust Fan	6640
115	100	Roof Exhaust Fan	6641
116	100	Roof Exhaust Fan	6642
117	100	1 <sup>st</sup> Section Vacuum Roll Exhaust Fan	6643
118	100	Hood Exhaust Fan	6644
119	100	3 <sup>rd</sup> Section Vacuum Roll Exhaust Fan	6645
120	100	Hood Exhaust Fan	6646
121	100	4 <sup>th</sup> Section Vacuum Roll Exhaust Fan	6647
122	100	4 <sup>th</sup> Section Vacuum Roll Exhaust Fan	6648
123	100	Hood Exhaust Fan	6649
124	100	5 <sup>th</sup> Section Vacuum Roll Exhaust Fan	6650
131	100	Paper Machine #1 Vacuum Trench Exhaust Fan	6651
201	200	White Top Thickener Exhaust Fan	6652
204	200	Thickener Exhaust Fan	6653
206	200	Saveall Exhaust Fan	6654
208	200	Fourdrinier Exhaust Fan	6655
209	200	Roof Exhaust Fan	6656
210	200	Roof Exhaust Fan	6657
211	200	Roof Exhaust Fan	6658
212	200	Roof Exhaust Fan	6659
213	200	Roof Exhaust Fan	6660
214	200	Roof Exhaust Fan	6662
215	200	Bel-Liner Exhaust Fan	6663
216	200	Roof Exhaust Fan	6664
217	200	Roof Exhaust Fan	6665
218	200	Roof Exhaust Fan	6666
219	200	Roof Exhaust Fan	6667
220	200	Roof Exhaust Fan	6668
221	200	Press Pulper Exhaust Fan	6669
222	200	1 <sup>st</sup> Section Vacuum Roll Exhaust Fan	6670
223	200	Hood Exhaust Fan	6671
224	200	Hood Exhaust Fan	6672
225	200	Hood Exhaust Fan	6673
226	200	4 <sup>th</sup> Section Vacuum Roll Exhaust Fan	6674
227	200	5 <sup>th</sup> Section Vacuum Roll Exhaust Fan	6675

<b>Emission Point Number</b>	<b>Emission Unit Number</b>	<b>Emission Unit Description</b>	<b>LCPH Construction Permit Number</b>
228	200	Hood Exhaust Fan	6676
231	200	After Hood Exhaust	6677
232	200	After Hood Exhaust Fan	6678
233	200	After Hood Exhaust Fan	6679
234	200	Roof Exhaust Fan	6680
242	200	Pulper Building Exhaust Fan	6681
243	200	Pulper Building Exhaust Fan	6682
244	200	Pulper Building Exhaust Fan	6683
245	200	Pulper Building Exhaust Fan	6684
246	200	Pulper Building Exhaust Fan	6685
247	200	Pulper Building Exhaust Fan	6686
248	200	Paper Machine #2 Vacuum Trench Exhaust Fan	6687
300	300	Cationic Starch Silo	6376 / 6128
301	301	Size Press Starch Silo	6377 / 6129
401	401	Paper Machine #1 Mill Water Cooling Tower	6369 / 6130
402	402	Paper Machine #1 Vacuum Cooling Tower	6370 / 6131
403	403	Paper Machine #2 Mill Water Cooling Tower	6371 / 6132
404	404	Paper Machine #2 Vacuum Cooling Tower	6372 / 6133
500	501A	Paper Machine #1 High Density Storage	6582 / 6407
501	501B	Paper Machine #1 High Density Storage	6583 / 6408
502	502	Paper Machine #2 Bottom Sheet High Density Storage	6584 / 6409
503	503	Paper Machine #2 Top Sheet High Density Storage	6585 / 6410
AMU7	200	Air Make Up Unit 7 – Mill 2-Indoor Vent within Mill 2	6688
AMU10	200	Air Make Up Unit 10 – Mill 2- Indoor Vent within Mill 2	6688
90	90	Sump Pump Engine	CI-3
91	91	Fire Pump Engine	--

## Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
350-349-7000	OCC Bale Warehouse Air Make Up Unit ICE
350-448-7040	OCC Bale Warehouse Unit Heater #1 Reznor
350-448-7050	OCC Bale Warehouse Unit Heater #2
350-448-7060	OCC Bale Warehouse Unit Heater #3
350-448-7070	OCC Bale Warehouse Heater #4
350-448-7080	OCC Bale Warehouse Heater #5
350-448-7090	OCC Bale Warehouse Heater #6
350-448-7095	OCC Bale Warehouse Heater #7
350-448-7096	OCC Bale Warehouse Heater #8
350-448-7160	OCC Bale Warehouse Door Heater #1
350-448-7170	OCC Bale Warehouse Door Heater #2
350-448-7100	OCC Bale Warehouse Door Heater #3
350-448-7110	OCC Bale Warehouse Door Heater #4
350-448-7120	OCC Bale Warehouse Door Heater #5
350-448-7130	OCC Bale Warehouse Door Heater #6
350-448-7140	OCC Bale Warehouse Door Heater #7
350-448-7150	OCC Bale Warehouse Door Heater #8
355-349-7000	OCC #1 Air Make Up Unit #1
510-349-7384	Tank Farm Unit Heater #1 Lennox
510-349-7386	Tank Farm Unit Heater #2 Lennox
510-349-7388	Tank Farm Unit Heater #3 Lennox
510-349-7390	Tank Farm Unit Heater #4 Lennox
520-349-7420	#1 Machine Building Air Make Up Unit #2
520-349-7425	#1 Machine Building Air Make Up Unit #3
520-349-7430	#1 Machine Building Air Make Up Unit #4
520-349-7435	#1 Machine Building Air Make Up Unit #5
520-349-7440	#1 Machine Building Air Make Up Unit #6
520-349-7442	#1 Machine Building Air Make Up Unit #7
350-8603	OCC Bale Warehouse Air Make Up Unit #8
350-7010	OCC #2 Air Make Up Unit #9
350-PPL-7600	Shipping Air Make Up Unit #10
560-349-7000	Finish Roll Warehouse Air Make Up Unit #1 ICE
560-349-8240	Finish Roll Warehouse Air Make Up Unit #2 ICE
560-448-7050	Finish Roll Warehouse Unit Heater #1
560-448-7070	Finish Roll Warehouse Unit Heater #3
560-448-7080	Finish Roll Warehouse Unit Heater #4
560-448-7090	Finish Roll Warehouse Unit Heater #5
560-448-7100	Finish Roll Warehouse Unit Heater #6
560-448-7110	Finish Roll Warehouse Unit Heater #7
560-448-7120	Finish Roll Warehouse Unit Heater #8
560-448-7130	Finish Roll Warehouse Door Heater #3
560-448-7140	Finish Roll Warehouse Door Heater #4
560-448-7190	Finish Roll Warehouse Door Heater #2
560-448-8270	Finish Roll Warehouse Unit Heater #9
560-448-8280	Finish Roll Warehouse Unit Heater #10
560-448-8290	Finish Roll Warehouse Unit Heater #12
560-448-8300	Finish Roll Warehouse Unit Heater #13
560-448-8320	Finish Roll Warehouse Unit Heater #15
560-448-8330	Finish Roll Warehouse Unit Heater #16
560-448-8340	Finish Roll Warehouse Unit Heater #17
560-448-8470	Finish Roll Warehouse Door Heater #12
521-T12-2	#1 Machine Building 6K CFM WE Crane Hatch
520-7910	#1 Machine Building 6K CFM DE Crane Hatch
350-349-8240	OCC Bale Storage Air Make Up Unit #1
350-349-8250	OCC Bale Storage Air Make Up Unit #2

Insignificant Emission Unit Number	Insignificant Emission Unit Description
350-349-8260	OCC Bale Storage Air Make Up Unit #3
350-448-8330	OCC Bale Storage Unit Heater #1
350-448-8340	OCC Bale Storage Unit Heater #2
350-448-8350	OCC Bale Storage Unit Heater #3
350-448-8360	OCC Bale Storage Unit Heater #4
350-448-8370	OCC Bale Storage Unit Heater #5
350-448-8380	OCC Bale Storage Unit Heater #6
350-448-8390	OCC Bale Storage Unit Heater #7
350-448-8400	OCC Bale Storage Unit Heater #8
350-448-8410	OCC Bale Storage Unit Heater #9
350-448-8420	OCC Bale Storage Unit Heater #10
350-448-8430	OCC Bale Storage Unit Heater #11
350-448-8440	OCC Bale Storage Unit Heater #12
350-448-8450	OCC Bale Storage Unit Heater #13
350-448-8460	OCC Bale Storage Unit Heater #14
350-448-8470	OCC Bale Storage Unit Heater #15
350-448-8480	OCC Bale Storage Unit Heater #16
350-448-8490	OCC Bale Storage Unit Heater #17
350-448-8500	OCC Bale Storage Unit Heater #18
350-448-8510	OCC Bale Storage Unit Heater #19
350-448-8520	OCC Bale Storage Unit Heater #20
350-448-8530	OCC Bale Storage Unit Heater #21
350-448-8540	OCC Bale Storage Unit Heater #22
350-448-8570	OCC Bale Storage Door Heater #1 Reznor
350-448-8580	OCC Bale Storage Door Heater #2 Reznor
350-448-8590	OCC Bale Storage Door Heater #3 Reznor
350-448-8600	OCC Bale Storage Door Heater #4 Reznor
350-448-8601	OCC Bale Storage Door Heater #5 Reznor
350-448-8602	OCC Bale Storage Door Heater #6 Reznor
355-349-7120	Clarifier Building Air Make Up Unit ICE
355-448-7150	Clarifier Building Unit Heater #1
355-448-7160	Clarifier Building Unit Heater #2
355-448-7170	Clarifier Building Unit Heater #3
355-448-7180	Clarifier Building Unit Heater #4
356-349-3255	Pulper Building Air Make Up Unit #1 ICE
356-349-3277	Pulper Building Door Heater #1
356-349-3278	Pulper Building Door Heater #2
356-349-3279	Pulper Building Door Heater #3
521-448-1203	Roll Conveyor Gallery Unit Heater #1
521-448-1204	Roll Conveyor Gallery Unit Heater #2
521-448-1205	Roll Conveyor Gallery Unit Heater #3
521-448-1206	Lowerator Tower Unit Heater #1
521-448-5760	Cooling Tower Pump House Unit Heater #1
521-448-5770	Cooling Tower Pump House Unit Heater #2
540-448-1642	Starch Kitchen Unit Heater #1
540-448-1643	Starch Kitchen Unit Heater #2
540-448-1644	Starch Kitchen Unit Heater #3
540-448-1645	Starch Kitchen Unit Heater #4
551-349-2020	#2 Tank Farm Unit Heater #1
551-349-2030	#2 Tank Farm Unit Heater #2
551-349-2040	#2 Tank Farm Unit Heater #3
551-349-2050	#2 Tank Farm Unit Heater #4
356-349-3040	#2 Paper Machine Building Air Make Up Unit #1
521-349-1293	#2 Machine Building Air Make Up Unit #2
521-349-1294	#2 Machine Building Air Make Up Unit #3
521-349-1295	#2 Machine Building Air Make Up Unit #4
12960	#2 Machine Dry End Air Make Up Unit #5
12970	#2 Machine Dry End Air Make Up Unit #6

<b>Insignificant Emission Unit Number</b>	<b>Insignificant Emission Unit Description</b>
12990	#2 Machine Dry End Air Make Up Unit #8
13000	#2 Machine Dry End Air Make Up Unit #9
3045	OCC Air Make Up Unit # 11
560-488-7150	Finish Roll Warehouse Door Heater #5
560-488-7160	Finish Roll Warehouse Door Heater #6
560-488-7170	Finish Roll Warehouse Door Heater #7
560-488-7180	Finish Roll Warehouse Door Heater #1
560-488-8350	Finish Roll Warehouse Door Heater #8
560-488-8360	Finish Roll Warehouse Door Heater #9
560-488-8370	Finish Roll Warehouse Door Heater #10
560-488-8380	Finish Roll Warehouse Door Heater #11
810-349-7540	Maintenance Shop Unit Heater #1
810-349-7550	Maintenance Shop Unit Heater #2
810-349-7560	Electrical Maintenance Unit Heater #3
810-349-7660	Main Receiving Stores Unit Heater #2
810-349-7670	Main Receiving Stores Unit Heater #1
810-349-7820	Rebuild Shop Unit Heater #1
810-349-7840	Weld Area Unit Heater #1
810-349-7850	Door Unit Maintenance Door Unit Heater #2
PNL 350-PPL-3, 37, 39, 41	#2 PM Raw Material North AMU#4
350 N/O	Door Unit Maintenance 2 <sup>nd</sup> Floor WH 100 gal
LPP-1 #24	P.M. Department Lennox Furnace (Horiz)
521-13310	#2 Machine Building North Crane Hatch
521-13311	#2 Machine Building South Crane Hatch
521-LRPP2-6 #34	Chemical Dock Heater
356-LRPP2	Pulper Skywalk Heater
356-LRPP2	Pulper Skywalk Heater
LM2 7, 9, 11	Overhead Walkway Roof Top Unit #1
LM2 13, 15, 17	Overhead Walkway Roof Top Unit #2
LM2 2, 4, 6	Overhead Walkway Roof Top Unit #3
LM2 8, 10, 12	Overhead Walkway Roof Top Unit #4
UAB-BLR-02	Upper Admin Bldg – Hot Water Boiler #1
UAB-BLR-03	Upper Admin Bldg – Hot Water Boiler #2

## II. Plant-Wide Conditions

Facility Name: International Paper Cedar River Mill  
Permit Number: 15-TV-005-M001

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

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### Permit Duration

The term of this permit is: Five Years  
Commencing on: April 21, 2015  
Ending on: April 20, 2020

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

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### Emission Limits

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

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

Sulfur Dioxide (SO<sub>2</sub>): 500 parts per million by volume  
Authority for Requirement: LCO 10.12(2)

#### Particulate Matter:

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

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

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

Authority for Requirement: LCO 10.9(1)

Fugitive Dust: Attainment and Unclassified Areas - A person shall take reasonable precautions to prevent particulate matter from becoming airborne in quantities sufficient to cause a nuisance as defined in Iowa Code section 657.1 when the person allows, causes or permits any materials to be handled, transported or stored or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved roads. Ordinary travel includes routine traffic and road maintenance activities such as scarifying, compacting, transporting road maintenance surfacing material, and scraping of the unpaved public road surface. (the preceding sentence is State Only) All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The public highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

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

Authority for Requirement: 567 IAC 23.3(2)"c"  
LCO 10.13

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## Regulatory Authority

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

Authority for Requirement: 567 IAC 22.108

### III. Emission Point-Specific Conditions

Facility Name: International Paper Cedar River Mill  
 Permit Number: 15-TV-005-M001

#### Emission Point ID Number: 104, 105, 107-124, 131

#### Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity
104	100Pulper	Stock Preparation Exhaust	Paper Pulp	1845 swt/day* 1675 swt/day
105	100	Fourdrinier Exhaust Fan		
107	100	Roof Exhaust Fan		
108	100	Roof Exhaust Fan		
109	100	Roof Exhaust Fan		
110	100	Fourdrinier Exhaust Fan		
111	100	Roof Exhaust Fan		
112	100	Roof Exhaust Fan		
113	100	Roof Exhaust Fan		
114	100	Roof Exhaust Fan		
115	100	Roof Exhaust Fan		
116	100	Roof Exhaust Fan		
117	100	1 <sup>st</sup> Section Vacuum Roll Exhaust Fan		
118	100	Hood Exhaust Fan		
119	100	3 <sup>rd</sup> Section Vacuum Roll Exhaust Fan		
120	100	Hood Exhaust Fan		
121	100	4 <sup>th</sup> Section Vacuum Roll Exhaust Fan		
122	100	4 <sup>th</sup> Section Vacuum Roll Exhaust Fan		
123	100	Hood Exhaust Fan		
124	100	5 <sup>th</sup> Section Vacuum Roll Exhaust Fan		
131	100	Paper Machine #1 Vacuum Trench Exhaust Fan		

\*EU100 Pulper

#### 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
104	PM/PM <sub>10</sub>	0.25 lb/hr	ATI 6627
105	PM/PM <sub>10</sub>	0.28 lb/hr	ATI 6628
107	PM/PM <sub>10</sub>	0.32 lb/hr	ATI 6630
108	PM/PM <sub>10</sub>	0.32 lb/hr	ATI 6631
109	PM/PM <sub>10</sub>	0.32 lb/hr	ATI 6632
110	PM/PM <sub>10</sub>	0.34 lb/hr	ATI 6636
111	PM/PM <sub>10</sub>	0.32 lb/hr	ATI 6637
112	PM/PM <sub>10</sub>	0.29 lb/hr	ATI 6638
113	PM/PM <sub>10</sub>	0.29 lb/hr	ATI 6639
114	PM/PM <sub>10</sub>	0.29 lb/hr	ATI 6640
115	PM/PM <sub>10</sub>	0.29 lb/hr	ATI 6641
116	PM/PM <sub>10</sub>	0.36 lb/hr	ATI 6642
117	PM/PM <sub>10</sub>	0.24 lb/hr	ATI 6643
118	PM/PM <sub>10</sub>	0.13 lb/hr	ATI 6644
119	PM/PM <sub>10</sub>	0.05 lb/hr	ATI 6645
120	PM/PM <sub>10</sub>	0.39 lb/hr	ATI 6646
121	PM/PM <sub>10</sub>	0.28 lb/hr	ATI 6647
122	PM/PM <sub>10</sub>	0.46 lb/hr	ATI 6648
123	PM/PM <sub>10</sub>	0.65 lb/hr	ATI 6649
124	PM/PM <sub>10</sub>	0.20 lb/hr	ATI 6650
131	PM/PM <sub>10</sub>	1.04 lb/hr	ATI 6651
104, 105, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116,	Opacity	20%	LCO 10.7
	PM	0.1 gr/dscf	567 IAC 23.3(2)"a"

EP	Pollutant	Emission Limit(s)	Authority for Requirement
117, 118, 119, 120, 121, 122, 123, 124, 131			LCO 10.9(1)"a"

### **Operational Limits & Requirements**

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

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

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. Conduct a monthly visual observation of exhausts to determine if visible emissions (VE) remain after steam and water vapor has dissipated. Promptly investigate and take corrective actions any time that visible emissions are detected that differ from normal exhaust conditions. Maintain records documenting that each monthly observation was conducted, specifically noting the presence or absence of visible emissions, whether follow-up actions were triggered, and corrective actions taken to address visible emissions, if applicable, and that the visible emissions have returned to normal conditions. If visible emissions continue to persist after corrective actions have been taken, Linn County Air Quality Division may require additional proof to demonstrate compliance with opacity standards.

Authority for Requirement: LCPH ATI 6627-6628, 6630-6632, 6636-6651

### **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)
104	6627	82.5	V	60	51	45,000
105	6628	85	V	60	103	60,000
107	6630	85	V	60	60	60,000
108	6631	85	V	60	60	60,000
109	6632	85	V	60	60	60,000
110	6636	82	V	60	120	60,000
111	6637	85	V	60	60	60,000
112	6638	83	V	60	95	60,000
113	6639	83	V	60	95	60,000
114	6640	85	V	60	95	60,000
115	6641	83	V	60	95	60,000
116	6642	83	V	60	95	60,000
117	6643	82.5	V	36	170	24,000
118	6644	82.5	V	60	190	60,000
119	6645	82.5	V	36	190	24,600
120	6646	85	V	60	90	60,000
121	6647	82.5	V	60	150	60,000
122	6648	82.5	V	42	130	42,600
123	6649	82.5	V	60	130	60,000
124	6650	82.5	V	36	180	30,400
131	6651	85	V	72	122	145,954

The temperature and flow rates are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature or flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

**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: 201, 204, 206, 208-234, 242-247, 248**

**Associated Equipment**

EP	EU	EU Description	Raw Material	Rated Capacity
201	200Pulper	White Top Thickener Exhaust Fan	Paper Pulp	2050 swt/day* 2255 swt/day
204	200	Thickener Exhaust Fan		
206	200	Saveall Exhaust Fan		
208	200	Fourdrinier Exhaust Fan		
209	200	Roof Exhaust Fan		
210	200	Roof Exhaust Fan		
211	200	Roof Exhaust Fan		
212	200	Roof Exhaust Fan		
213	200	Roof Exhaust Fan		
214	200	Roof Exhaust Fan		
215	200	Bel-Liner Exhaust Fan		
216	200	Roof Exhaust Fan		
217	200	Roof Exhaust Fan		
218	200	Roof Exhaust Fan		
219	200	Roof Exhaust Fan		
220	200	Roof Exhaust Fan		
221	200	Press Pulper Exhaust Fan		
222	200	1 <sup>st</sup> Section Vacuum Roll Exhaust Fan		
223	200	Hood Exhaust Fan		
224	200	Hood Exhaust Fan		
225	200	Hood Exhaust Fan		
226	200	4 <sup>th</sup> Section Vacuum Roll Exhaust Fan		
227	200	5 <sup>th</sup> Section Vacuum Roll Exhaust Fan		
228	200	Hood Exhaust Exhaust Fan		
231	200	After Hood Exhaust		
232	200	After Hood Exhaust Fan		
233	200	After Hood Exhaust Fan		
234	200	Roof Exhaust Fan		
242	200	Pulper Building Exhaust Fan		
243	200	Pulper Building Exhaust Fan		
244	200	Pulper Building Exhaust Fan		
245	200	Pulper Building Exhaust Fan		
246	200	Pulper Building Exhaust Fan		
247	200	Pulper Building Exhaust Fan		
248	200	Paper Machine #2 Vacuum Trench Exhaust Fan		

\*EU200Pulper

**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
201	PM/PM <sub>10</sub>	0.02 lb/hr	ATI 6652
204	PM/PM <sub>10</sub>	0.01 lb/hr	ATI 6653
206	PM/PM <sub>10</sub>	0.01 lb/hr	ATI 6654
208	PM/PM <sub>10</sub>	0.45 lb/hr	ATI 6655
209	PM/PM <sub>10</sub>	0.32 lb/hr	ATI 6656
210	PM/PM <sub>10</sub>	0.32 lb/hr	ATI 6657
211	PM/PM <sub>10</sub>	0.32 lb/hr	ATI 6658
212	PM/PM <sub>10</sub>	0.32 lb/hr	ATI 6659
213	PM/PM <sub>10</sub>	0.32 lb/hr	ATI 6660
214	PM/PM <sub>10</sub>	0.27 lb/hr	ATI 6662
215	PM/PM <sub>10</sub>	0.13 lb/hr	ATI 6663
216	PM/PM <sub>10</sub>	0.38 lb/hr	ATI 6664
217	PM/PM <sub>10</sub>	0.29 lb/hr	ATI 6665
218	PM/PM <sub>10</sub>	0.29 lb/hr	ATI 6666
219	PM/PM <sub>10</sub>	0.29 lb/hr	ATI 6667
220	PM/PM <sub>10</sub>	0.27 lb/hr	ATI 6668
221	PM/PM <sub>10</sub>	0.25 lb/hr	ATI 6669

EP	Pollutant	Emission Limit(s)	Authority for Requirement
222	PM/PM <sub>10</sub>	025 lb/hr	ATI 6670
223	PM/PM <sub>10</sub>	0.29 lb/hr	ATI 6671
224	PM/PM <sub>10</sub>	0.35 lb/hr	ATI 6672
225	PM/PM <sub>10</sub>	0.08 lb/hr	ATI 6673
226	PM/PM <sub>10</sub>	0.25 lb/hr	ATI 6674
227	PM/PM <sub>10</sub>	0.42 lb/hr	ATI 6675
228	PM/PM <sub>10</sub>	0.35 lb/hr	ATI 6676
231	PM/PM <sub>10</sub>	0.39 lb/hr	ATI 6677
232	PM/PM <sub>10</sub>	0.49 lb/hr	ATI 6678
233	PM/PM <sub>10</sub>	0.39 lb/hr	ATI 6679
234	PM/PM <sub>10</sub>	0.99 lb/hr	ATI 6680
242	PM/PM <sub>10</sub>	0.08 lb/hr	ATI 6681
243	PM/PM <sub>10</sub>	0.14 lb/hr	ATI 6682
244	PM/PM <sub>10</sub>	0.08 lb/hr	ATI 6683
245	PM/PM <sub>10</sub>	0.14 lb/hr	ATI 6684
246	PM/PM <sub>10</sub>	0.14 lb/hr	ATI 6685
247	PM/PM <sub>10</sub>	0.08 lb/hr	ATI 6686
248	PM/PM <sub>10</sub>	0.97 lb/hr	ATI 6687
201, 204,206, 208, 209, 210,211, 212, 213, 214, 215, 216, 217, 218,219, 220,221, 222, 223, 224, 225, 226, 227, 228, 231, 232, 233, 234, 242, 243, 244, 245, 246, 247, 248	Opacity	20%	LCO 10.7
	PM	0.1 gr/dscf	567 IAC 23.4(7) LCO 10.9(1)"g"

### **Operational Limits & Requirements**

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

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

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. Conduct a monthly visual observation of exhausts to determine if visible emissions (VE) remain after steam and water vapor has dissipated. Promptly investigate and take corrective actions any time that visible emissions are detected that differ from normal exhaust conditions. Maintain records documenting that each monthly observation was conducted, specifically noting the presence or absence of visible emissions, whether follow-up actions were triggered, and corrective actions taken to address visible emissions, if applicable, and that the visible emissions have returned to normal conditions. If visible emissions continue to persist after corrective actions have been taken, Linn County Air Quality Division may require additional proof to demonstrate compliance with opacity standards.

Authority for Requirement: LCPH ATI 6652 - 6687

### **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)
201	6652	82	V	18	75	3,500
204	6653	82	V	18	130	3,500
206	6654	82	V	18	140	3,500
208	6655	82	V	54	110	75,000
209	6656	85	V	60	58	60,000
210	6657	84	V	60	58	60,000
211	6658	85	V	60	58	60,000
212	6659	85	V	60	60	60,000
213	6660	84	V	60	58	60,000
214	6662	84	V	60	110	60,000
215	6663	82	V	36	130	32,000

EP	LCPH ATI / PTO	Stack Height (feet, above ground)	Discharge Style	Stack Opening (inches, dia.)	Exhaust Temp. (°F)	Exhaust Flowrate (acfm)
216	6664	84	V	60	95	60,000
217	6665	84	V	60	95	60,000
218	6666	85	V	60	95	60,000
219	6667	84	V	60	95	60,000
220	6668	84	V	60	110	60,000
221	6669	82	V	36	90	18,000
222	6670	82	V	36	160	24,300
223	6671	82	V	54	230	68,700
224	6672	85	V	60	120	60,000
225	6673	82	V	54	200	68,700
226	6674	82	V	48	120	42,500
227	6675	82	V	48	120	36,500
228	6676	82	V	54	185	68,700
231	6677	82	V	48	170	48,000
232	6678	85	V	60	170	60,000
233	6679	82	V	48	170	48,000
234	6680	85	V	60	90	60,000
242	6681	56	V	48	70	14,000
243	6682	57	V	60	80	26,000
244	6683	56	V	48	40	14,000
245	6684	57	V	60	80	26,000
246	6685	57	V	60	80	26,000
247	6686	56	V	48	80	14,000
248	6687	85	V	72	122	136,820

The temperature and flow rates are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature or flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

**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: 300, 301

### Associated Equipment

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
300	300	Cationic Starch Silo	Starch	15 tons/hr	300	Baghouse
301	301	Size Press Starch Silo	Starch	15 tons/hr	301	Baghouse

### Applicable Requirements

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

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

#### Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement
300, 301	Opacity	20%	LCPH ATI 6376 / PTO 6128 LCPH ATI 6377 / PTO 6129 LCO 10.7
	PM	0.1 gr/dscf	LCPH ATI 6376 / PTO 6128 LCPH ATI 6377 / PTO 6129 567 IAC 23.3(2)"a" LCO 10.9(1)"a"
	PM/PM <sub>10</sub>	0.86 lb/hr	LCPH ATI 6376 / PTO 6128 LCPH ATI 6377 / PTO 6129

#### Operational Limits & Requirements

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

#### Control Equipment

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

#### Operating Limits

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

B. The differential pressure across the control equipment shall be maintained between 0.1" and 8.0" w.c.

Authority for Requirement: LCPH ATI 6376 / PTO 6128

LCPH ATI 6377 / PTO 6129

### **Operating Condition Monitoring & Recordkeeping**

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. The owner or operator shall monitor and record the differential pressure across the control equipment at least one time during each receiving event.
- B. The owner or operator shall maintain a record of all maintenance and repair completed on the control equipment.
- C. The owner or operator shall conduct a visual observation of the exhaust at least one time during each receiving event. Promptly investigate and take corrective actions any time that visible emissions are identified. Maintain records documenting that each observation was conducted, specifically noting the presence or absence of visible emissions; whether follow-up actions were triggered, and corrective actions taken to address visible emissions, if applicable, and that the visible emissions have returned to normal conditions. If visible emissions continue to persist after corrective actions have been taken, Linn County Air Quality Division may require additional proof to demonstrate compliance with opacity standards.

Authority for Requirement: LCPH ATI 6376 / PTO 6128  
LCPH ATI 6377 / PTO 6129

### **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)
300	6376 / 6128	70	Horizontal	7	70	1000
301	6377 / 6129	87.5	Horizontal	7	70	1000

The temperature and flow rates are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature or flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

### **Monitoring Requirements**

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

**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: 400**

**Associated Equipment**

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
400	AMU7	Air Make Up Unit 7 – Mill 2	Natural Gas	10 MMBtu/hr	--	--
	AMU10	Air Make Up Unit 10 – Mill 2	Natural Gas	10.75 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.*

**Emission Limits**

EP	Pollutant	Emission Limit(s)	Authority for Requirement
400	Opacity	NVE	LCPH ATI 6688
	PM	0.506 lb/MMBtu	LCPH ATI 6688 LCO 10.8(2)"b"
	SO <sub>2</sub>	500 ppmv	LCPH ATI 6688 LCO 10.12(2)

**Operational Limits & Requirements**

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

**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	6688	--		--	--	--

The temperature and flow rates are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature or flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

**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: 401, 402, 403, 404**

**Associated Equipment**

EP	EU	EU Description	Raw Material	Rated Capacity	CE ID	CE Description
401	401	Paper Machine #1 Mill Water Cooling Tower	Process Cooling Water	150,000 gallons	401	Drift Eliminator
402	402	Paper Machine #1 Vacuum Cooling Tower	Process Cooling Water	105,000 gallons	402	Drift Eliminator
403	403	Paper Machine #2 Mill Water Cooling Tower	Process Cooling Water	258,000 gallons	403	Drift Eliminator
404	404	Paper Machine #2 Vacuum Cooling Tower	Process Cooling Water	105,000 gallons	404	Drift Eliminator

**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
401	PM/PM <sub>10</sub>	1.02 lb/hr	LCPH ATI 6369 / PTO 6130
402	PM/PM <sub>10</sub>	12.07 lb/hr	LCPH ATI 6370 / PTO 6131
403	PM/PM <sub>10</sub>	2.14 lb/hr	LCPH ATI 6371 / PTO 6132
404	PM/PM <sub>10</sub>	14.21 lb/hr	LCPH ATI 6372 / PTO 6133
401, 402, 403, 404	Opacity	20%	LCO 10.7
	PM	0.1 gr/dscf	567 IAC 23.3(2)"a" LCO 10.9(1)"a"

**Operational Limits & Requirements**

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

**Operating Limits**

- A. Chromium based water treatment chemicals shall not be used in this emission unit.
- B. Measurement of Total Dissolved Solids (TDS) concentration in excess of (See Table 1) triggers requirements to take prompt action to identify and correct equipment and operational conditions causing or contributing to elevated levels of TDS. Failure to investigate and take prompt actions to reduce elevated TDS concentrations or failure to conduct follow up confirmation sampling and analysis following corrective actions as described in Section 16 of this permit is considered an excess emissions event and a violation of the permit.

**Table 1**

Emission Point	Emission Limit
401	8,153 ppmw
402	137,883 ppmw
403	7,650 ppmw
404	162,270 ppmw

Authority for Requirement: LCPH ATI 6369 / PTO 6130; LCPH ATI 6370 / PTO 6131  
LCPH ATI 6371 / PTO 6132; LCPH ATI 6372 / PTO 6133

### Operating Condition Monitoring & Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. The owner or operator shall maintain a material safety data sheet of all water treatment chemicals used.
- B. The owner or operator shall maintain records of the manufacturer's design guarantee.
- C. At least once each calendar month, collect, analyze and record TDS level from cooling tower influent grab samples. If TDS exceeds (See Table 1) during any sampling event, the permittee must promptly investigate, take corrective actions to reduce solids concentrations and increase the frequency of monitoring to a weekly basis to confirm the corrective measures have lowered solids below action levels. The monthly monitoring frequency may resume following four consecutive weekly sampling events with measured TDS below the specified action level.
- D. Each calendar month, perform a visual observation of the cooling tower exhaust gases to determine if visible emissions exist after water vapor and steam has condensed and fully dissipated. If visible emissions other than water are observed, promptly investigate to identify equipment or operating conditions causing the condition and take necessary corrective actions to minimize emissions. Maintain records documenting that each monthly observation was conducted, specifically noting the presence or absence of visible emissions, whether follow-up actions were triggered, and corrective actions taken to address visible emissions, if applicable, and that the visible emissions have returned to normal conditions. If visible emissions continue to persist after corrective actions have been taken, Linn County Air Quality Division may require additional proof to demonstrate compliance with opacity standards.

Authority for Requirement: LCPH ATI 6369 / PTO 6130; LCPH ATI 6370 / PTO 6131  
LCPH ATI 6371 / PTO 6132; LCPH ATI 6372 / PTO 6133

### 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)
401	6369 / 6130	22.2	V	168	62	143,950
402	6370 / 6131	19.2	V	129	95	103,700
403	6371 / 6132	24.7	V	240	62	302,580
404	6372 / 6133	26	V	240	95	302,580

The temperature and flow rates are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature or flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

### Monitoring Requirements

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

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: 500, 501, 502, 503

EP	EU	EU Description	Raw Material	Rated Capacity
500	501A	Paper Machine #1 High Density Chest	Paper Pulp	1.3 Million Gallons
501	501B	Paper Machine #1 High Density Chest	Paper Pulp	1.3 Million Gallons
502	502	Paper Machine #2 Bottom Sheet High Density Chest	Paper Pulp	1.3 Million Gallons
503	503	Paper Machine #2 Top Sheet High Density Chest	Paper Pulp	1.3 Million Gallons

### 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)	Authority for Requirement
500, 501, 502, 503	PM	0.1 gr/dscf	LCPH ATI 6582 / PTO 6407 LCPH ATI 6583 / PTO 6408 LCPH ATI 6584 / PTO 6409 LCPH ATI 6585 / PTO 6410 567 IAC 23.3(2)"a" LCO 10.9(1)"a
	Opacity	20%	LCPH ATI 6582 / PTO 6407 LCPH ATI 6583 / PTO 6408 LCPH ATI 6584 / PTO 6409 LCPH ATI 6585 / PTO 6410 LCO 10.7

#### Operational Limits & Requirements

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

#### Operating Condition Monitoring & Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives. Records shall be legible and maintained in an orderly manner. These records shall show the following:

- A. Conduct a monthly visual observation of exhausts to determine if visible emissions (VE) remain after steam and water vapor has dissipated. Promptly investigate and take corrective actions any time that visible emissions are detected that differ from normal exhaust conditions. Maintain records documenting that each monthly observation was conducted, specifically noting the presence or absence of visible emissions, whether follow-up actions were triggered, and corrective actions taken to address visible emissions, if applicable, and that the visible emissions have returned to normal conditions. If visible emissions continue to persist after corrective actions have been taken, Linn County Air Quality Division may require additional proof to demonstrate compliance with opacity standards.

Authority for Requirement: LCPH ATI 6582 / PTO 6407; LCPH ATI 6583 / PTO 6408  
LCPH ATI 6584 / PTO 6409; LCPH ATI 6585 / PTO 6410

#### 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)
500	6582 / 6407	84	V	3	100	PD
501	6583 / 6408	85.25	V	8	100	PD
502	6584 / 6409	85.25	V	6	100	PD
503	6585 / 6410	85.25	V	6	100	PD

The temperature and flow rates are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature or flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

**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: 90

### Associated Equipment

EP	EU	EU Description	Fuel	Rated Capacity	CEID	CE Description
90	90	Sump Pump Engine – 80 BHP	Diesel	0.20 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.*

#### NSPS Emission Limits

EP	Pollutant	Emission Limit(s)	Authority for Requirement
90	NMHC + NO <sub>x</sub>	5.6 grams/HP-hr	40 CFR §60.4205
	CO	3.7 grams/HP-hr	
		0.30 grams/HP-hr	
	PM	0.6 lb/MMBtu	567 IAC 23.3(2)(b)(2) LCO 10.8(2)"a"
	SO <sub>2</sub>	500 ppmv	567 IAC 23.3(3)"e" LCO 10.12(2)
	Opacity	20%	LCO 10.7

#### Operational Limits & Requirements

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

#### NSPS & NESHAP Applicability

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

A. The New Source Performance Standards (NSPS), 40 CFR 60, Subpart A General Provisions and 40 CFR 60 Subpart IIII shall apply to this emission unit pursuant to LCCO 10.9(2)"a"(77) and 567 IAC 23.1(2)"yy".

B. The National Emission Standards for Hazardous Air Pollutants (NESHAP) *Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines* shall apply to this emission unit pursuant to LCCO 10.9(4)"zzzz" and 567 IAC 23.1(4) "cz".

According to §63.6590(c) this compression ignited, emergency engine must meet the requirements of this subpart by meeting the requirements of 40 CFR Part 60, Subpart IIII. No further requirements apply for this engine under this part.

Authority for Requirement: LCPH Registration Permit for EP90

Below is the specific requirements outlined in the Compression Ignition Internal Combustion Engines <400 bhp Registration Permit for EP90. For a full explanation of all requirements and to view the subpart in its entirety, please refer to the web link in Appendix A.

#### **Emission Standards for Owners and Operators**

A. 2007 and later model year engines **must** be certified by the manufacturer to comply with the emission standards of Subpart IIII. These standards are summarized in the appendix to this form, Tables B, C, and D.

### **Fuel Requirements for Owners and Operators**

- A. Beginning October 1, 2007, engines must use a fuel that meets the following: 1) a maximum sulfur content of 500 ppm and 2) either a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume.
- B. Beginning October 1, 2010, engines must use a fuel that meets the following: 1) a maximum sulfur content of 15 ppm and 2) either a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume.

### **Emergency Engine Requirements for Owners and Operators**

- A. Owners and operators of an emergency CI engine must install a non-resettable hour meter prior to start-up of the engine.
- B. The engine may be operated for the purpose of maintenance checks and readiness testing a maximum of 100 hours/year. There is no time limit on use for emergency situations.
- C. Operation other than for emergency operation and maintenance checks and readiness testing as permitted is prohibited
- D. Owners and operators of an emergency engine must keep records of all operation of the engine. The owner must record the time of operation of the engine and the reason the engine was in operation.<sup>(1)</sup>  
*(1) Use the attached Engine Operation Log (or an equivalent form which captures all information necessary to comply with this NSPS requirement) to record and this information. Section 5 of this registration requires the facility to submit this information to the Linn County Public Health Department Air Quality Division on an annual basis.*

### **Summary of Compliance Requirements for Owners and Operators**

- A. Owners and operators must meet the applicable emission standards listed in the appendix to this form. The engine must be installed and configured according to the manufacturer's specifications.
- B. Owner and operators must operate and maintain the CI engines according to manufacturer's written procedures for the life of the engine to maintain compliance with the emission standards.
- C. Owners and operators of pre-2007 model year CI engines or owners and operators of a fire pump engines manufactured prior to the model year matching the maximum engine power and model year criteria in Table E of the appendix to this form must comply with the emission standards in either Table A or Table D of the appendix. Compliance must be demonstrated according to one of the following methods:
  - 1. Purchase an engine certified according to 40 CFR Part 89 or 40 CFR Part 94, as applicable, for the same model year and maximum engine power.
  - 2. Keep records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in Subpart IIII.
  - 3. Keep records of engine manufacturer data indicating compliance with the standards.
  - 4. Keep records of control device vendor data indicating compliance with the standards.
  - 5. Conduct an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in 40 CFR §60.4212 as applicable.
- D. Owners and operators of CI fire pump engines that are manufactured in or after the model years specified in Table E of the appendix to this form must comply with the emission standards in Table D of the appendix by purchasing an engine certified to the applicable emission standards for the same model year and engine power. The engine must be installed and configured according to the manufacturer's specifications.

### **Annual Reporting Requirements**

- A. The owner or operator shall submit the following information no later than January 31<sup>st</sup> of each year for the previous calendar year:
  - 1. Engine Operation Log

**Appendix to LCPH AQD CI Engine Registration Form (LCPH Form 2009-III)**

**Compression Ignition Engines (Diesel Engines) Emission Standards**  
**40 CFR Part 60, Subpart III**

**Emission Standards for 2007 Model Year and Later Emergency Engines that are not Fire Pump Engines** (based on 40 CFR §89.112 and Table 2 to Subpart III)

Limits in grams/KW-hr (grams/HP-hr)

Maximum Engine Power	Model Year(s)	NMHC + NO <sub>x</sub>	CO	PM
kW < 8 (HP < 11)	2007	7.5 (5.6)	8.0 (6.0)	0.80 (0.60)
	2008+			0.40 (0.30)
8 ≤ kW < 19 (11 ≤ HP < 25)	2007	7.5 (5.6)	6.6 (4.9)	0.80 (0.60)
	2008+			0.40 (0.30)
19 ≤ kW < 37 (25 ≤ HP < 50)	2007	7.5 (5.6)	5.5 (4.1)	0.60 (0.45)
	2008+			0.30 (0.22)
37 ≤ kW < 75 (50 ≤ HP < 100)	2007	7.5 (5.6)	5.0 (3.7)	0.40 (0.30)
	2008+	4.7 (3.5)		
75 ≤ kW < 130 (100 ≤ HP < 175)	2007+	4.0 (3.0)	5.0 (3.7)	0.30 (0.22)
130 ≤ kW < 300 (175 ≤ HP < 400)	2007+	4.0 (3.0)	3.5 (2.6)	0.20 (0.15)

**Monitoring Requirements**

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

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

Yes  No   
 Yes  No   
 Yes  No

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: 91

### Associated Equipment

EP	EU	EU Description	Fuel	Rated Capacity	CEID	CE Description
91	91	Fire Pump Engine – 208 BPH	Diesel	0.51 MMBtu/hr	--	--

### Applicable Requirements

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

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

#### **NSPS & NESHAP Applicability**

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

- A. The New Source Performance Standards (NSPS), 40 CFR 60, Subpart A General Provisions and 40 CFR 60 Subpart IIII does not apply as this emission unit does not meet the applicability criteria of 40 CFR §60.4200.
- B. The National Emission Standards for Hazardous Air Pollutants (NESHAP) *Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines* shall apply to this emission unit pursuant to LCCO 10.9(4)"zzzz" and 567 IAC 23.1(4) "cz".  
Authority for Requirement: 40 CFR 63 Subpart ZZZZ

## IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22 and Linn County Code of Ordinance (LCCO) Chapter 10, paragraph 10.4.

### G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 22.108(9)"a"*
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 22.105 (2)"h"(3)*
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 22.108 (1)"b"*
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 22.108 (14)*
5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 22.108 (9)"b"*
6. For applicable requirements with which the permittee is in compliance, the permittee shall continue to comply with such requirements. For applicable requirements that will become effective during the permit term, the permittee shall meet such requirements on a timely basis. *567 IAC 22.108(15)"c"*

### G2. Permit Expiration

1. Except as provided in rule 567—22.104(455B), permit expiration terminates a source's right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—22.105(455B). *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall submit on forms or electronic format specified by the Department to the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Windsor Heights, Iowa 50324, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to U.S. EPA Region VII, Attention: Chief of Air Permits, 11201 Renner Blvd., Lenexa, KS 66219. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

### G3. Certification Requirement for Title V Related Documents

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

### G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source,

currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and Linn County Public Health Air Quality Division. 567 IAC 22.108 (15)"e"

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

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

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

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
  - a. Form 1.0 "Facility Identification";
  - b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
  - c. Form 5.0 "Title V annual emissions summary/fee"; and
  - d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
  - a. Form 1.0 "Facility Identification";
  - b. Form 5.0 "Title V annual emissions summary/fee";
  - c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

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

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

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b" and LCCO 10.22*

**G8. Duty to Provide Information**

The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 22.108 (9)"e" and LCCO 10.18 and 10.19*

**G9. General Maintenance and Repair Duties**

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

1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 24.2(1) and LCCO 10.14(2)*

**G10. Recordkeeping Requirements for Compliance Monitoring**

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
  - a. The date, place and time of sampling or measurements
  - b. The date the analyses were performed.
  - c. The company or entity that performed the analyses.
  - d. The analytical techniques or methods used.
  - e. The results of such analyses; and
  - f. The operating conditions as existing at the time of sampling or measurement.
  - g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
  - a. Comply with all terms and conditions of this permit specific to each alternative scenario.
  - b. Maintain a log at the permitted facility of the scenario under which it is operating.
  - c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

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

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

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

- a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
  - b. Compliance test methods specified in 567 Chapter 25; or
  - c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.
2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
- a. Any monitoring or testing methods provided in these rules; or
  - b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2) and LCCO 10.16(1)*

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

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

**G13. Hazardous Release**

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 275-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). *567 IAC Chapter 131-State Only*

**G14. Excess Emissions and Excess Emissions Reporting Requirements**

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. A variance from this subrule may be available as provided for in Iowa Code section 455B.143. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.
2. Excess Emissions Reporting
  - a. Initial Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the

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

- i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
  - ii. The estimated quantity of the excess emission.
  - iii. The time and expected duration of the excess emission.
  - iv. The cause of the excess emission.
  - v. The steps being taken to remedy the excess emission.
  - vi. The steps being taken to limit the excess emission in the interim period.
- b. **Written Reporting of Excess Emissions.** A written report of an incident of excess emission shall be submitted as a follow-up to all required initial reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:
- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
  - ii. The estimated quantity of the excess emission.
  - iii. The time and duration of the excess emission.
  - iv. The cause of the excess emission.
  - v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
  - vi. The steps that were taken to limit the excess emission.
  - vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4) and LCCO 10.14*
3. **Emergency Defense for Excess Emissions.** For the purposes of this permit, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:
- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
  - b. The facility at the time was being properly operated;
  - c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
  - d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice fulfills the requirement of paragraph 22.108(5)"b." – See G15. This

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

In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof. This provision is in addition to any emergency or upset provision contained in any applicable requirement. *567 IAC 22.108(16)*

**G15. Permit Deviation Reporting Requirements**

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

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

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4) This notification must be made to Linn County Air Quality Division, in lieu of the Department, upon adoption of the NSPS or NESHAP into Chapter 10.*

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

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
  - a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
  - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
  - c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
  - d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B));
  - e. The changes comply with all applicable requirements.
  - f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
    - i. A brief description of the change within the permitted facility,
    - ii. The date on which the change will occur,
    - iii. Any change in emission as a result of that change,
    - iv. The pollutants emitted subject to the emissions trade
    - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
    - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and



- v. Are not modifications under any provision of Title I of the Act; and
  - vi. Are not required to be processed as significant modification under rule 567 - 22.113(455B).
- b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
- i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
  - ii. The permittee's suggested draft permit;
  - iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
  - iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).
- c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

### 3. Significant Title V Permit Modification.

Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, as those requirements that apply to Title V issuance and renewal.

The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. *567 IAC 22.111-567 IAC 22.113*

#### **G19. Duty to Obtain Construction Permits**

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

#### **G20. Asbestos**

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

#### **G21. Open Burning**

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

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

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in

this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 22.108(7)*

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

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

### **G24. Permit Reopenings**

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*

2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.
  - a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
  - b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.
  - c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a", 567 IAC 22.108(17)"b"*
3. A permit shall be reopened and revised under any of the following circumstances:
  - a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;
  - b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
  - c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
  - d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
  - e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*
4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*
5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 22.114(3)*

**G25. Permit Shield**

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:
  - a. Such applicable requirements are included and are specifically identified in the permit; or
  - b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.
3. A permit shield shall not alter or affect the following:

- a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
- b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
- d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

**G26. Severability**

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 22.108 (8) and LCCO 10.27*

**G27. Property Rights**

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

**G28. Transferability**

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

**G29. Disclaimer**

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

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

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. If the owner or operator does not provide timely notice to the department, the department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department's request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance. Stack test notifications, reports and correspondence shall be sent to:

Stack Test Review Coordinator  
Iowa DNR, Air Quality Bureau  
7900 Hickman Road, Suite #1  
Windsor Heights, IA 50324  
(515) 725-9545

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

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

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

The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons. 567 IAC 26.1(1)

**G32. Contacts List**

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

Chief of Air Permits  
U.S. EPA Region 7  
Air Permits and Compliance Branch  
11201 Renner Blvd.  
Lenexa, KS 66219  
(913) 551-7020

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

Chief, Air Quality Bureau  
Iowa Department of Natural Resources  
7900 Hickman Road, Suite #1  
Windsor Heights, IA 50324  
(515) 725-9500

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

**Linn County Public Health**  
Air Quality Division  
1240 26<sup>th</sup> Ave Ct. SW  
Cedar Rapids, IA 52404  
(319) 892-6000

## V. APPENDIX A

### **40 CFR Part 60 Subpart IIII** – *Standards of Performance for Stationary Compression Ignition Internal Combustion Engines*

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

<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.iiii>

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

<http://www2.epa.gov/caa-permitting/new-source-performance-standards-region-7>

### **40 CFR 63 Subpart ZZZZ** – *National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*

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

<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.14.63.zzzz>

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

<http://www2.epa.gov/caa-permitting/maximum-achievable-control-technology-standards-region-7>