

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

**Name of Permitted Facility: Pella Corporation – Pella Division**

**Facility Location: 102 Main Street, Pella, IA 50219**

**Air Quality Operating Permit Number: 00-TV-030R2-M001**

**Expiration Date: January 28, 2018**

**Permit Renewal Application Deadline: July 28, 2017**

**EIQ Number: 92-4047**

**Facility File Number: 63-02-003**

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**Responsible Official**

**Name: Mr. Jim Meyer**

**Title: Vice President of Operations**

**Mailing Address: 102 Main Street, Pella, IA 50219**

**Phone #: (641) 628-1000**

**Permit Contact Person for the Facility**

**Name: Mr. Peter Wind**

**Title: Senior Environmental Engineer**

**Mailing Address: 102 Main Street, Pella, IA 50219**

**Phone #: (641) 621-6266**

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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

Date

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## Abbreviations

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

### Pollutants

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

# I. Facility Description and Equipment List

Facility Name: Pella Corporation – Pella Division

Permit Number: 00-TV-030R2-M001

Facility Description: Millwork (SIC 2431)

## Equipment List

<b>Emission Point Number</b>	<b>Emission Unit Number</b>	<b>Emission Unit Description</b>	<b>IDNR Construction Permit Number</b>
<b>Boilers</b>			
EP-2	EU-2	Boiler #2	04-A-1010-S2
EP-14	EU-14	Boiler #3	04-A-1011-S2
EP-16	EU-16	Boiler #4	01-A-994-S3
EP-49	EU-49	Boiler #6	88-A-186-S3
<b>Electric Ovens</b>			
EP-152	EU-152	Electric Oven	09-A-574-S2
EP-173	EU-173	Electric Oven	09-A-584-S2
EP-174	EU-174	Electric Oven	09-A-585-S1
EP-179	EU-179	Electric Oven	09-A-590-S2
EP-180	EU-180	Electric Oven	09-A-591-S2
EP-183	EU-183	Electric Oven	09-A-594-S1
EP-199	EU-199	Electric Oven	09-A-610-S1
EP-205	EU-205	Electric Oven	09-A-616-S2
EP-225	EU-225	Electric Oven	11-A-188-S1
EP-227	EU-227	Electric Oven	11-A-190-S1
<b>Electric/IR Dry-off Ovens</b>			
EP-120	EU-120	Electric/IR Dry-off Oven #1	07-A-131-S7
EP-122	EU-122	Electric/IR Dry-off Oven #2	07-A-133-S7
EP-124	EU-124	Electric/IR Dry-off Oven #3	07-A-993-S5
EP-126	EU-126	Electric/IR Dry-off Oven #4	07-A-995-S6
EP-131	EU-131	Electric/IR Dry-off Oven #6	08-A-198-S4
EP-133	EU-133	Electric/IR Dry-off Oven #7	08-A-200-S5
EP-135	EU-135	Electric/IR Dry-off Oven #8	08-A-202-S4
<b>Entry Door Curing Ovens</b>			
EP-230	EU-230	Entry Door Curing Oven	11-A-735
EP-236	EU-236	Entry Door Curing Oven	12-A-115
EP-237	EU-237	Entry Door Curing Oven	12-A-116
<b>Half Auto Surface Coating Booths</b>			
EP-155	EU-155	Half Auto Surface Coating Booth	09-A-577-S3
EP-156	EU-156	Half Auto Surface Coating Booth	09-A-578-S3
EP-175	EU-175	Half Auto Surface Coating Booth	09-A-586-S3
EP-176	EU-176	Half Auto Surface Coating Booth	09-A-587-S3
EP-177	EU-177	Half Auto Surface Coating Booth	09-A-588-S3
EP-181	EU-181	Half Auto Surface Coating Booth	09-A-592-S2
EP-182	EU-182	Half Auto Surface Coating Booth	09-A-593-S2
EP-195	EU-195	Half Auto Surface Coating Booth	09-A-606-S2

<b>Emission Point Number</b>	<b>Emission Unit Number</b>	<b>Emission Unit Description</b>	<b>IDNR Construction Permit Number</b>
EP-224	EU-224	Half Auto Surface Coating Booth	11-A-187-S1
EP-226	EU-226	Half Auto Surface Coating Booth	11-A-189-S1
EP-232	EU-232	Half Auto Surface Coating Booth	12-A-111
EP-233	EU-233	Half Auto Surface Coating Booth	12-A-112
EP-234	EU-234	Half Auto Surface Coating Booth	12-A-113
EP-235	EU-235	Half Auto Surface Coating Booth	12-A-114
<b>Vertical Line Drying Ovens</b>			
EP-40	EU-40	Vertical Line Drying Oven	92-A-588-S5
EP-41	EU-41	Vertical Line Drying Oven	92-A-589-S5
EP-42	EU-42	Vertical Line Drying Oven	92-A-590-S5
<b>Horizontal Line Drying Ovens</b>			
EP-47	EU-47	Horizontal Line Drying Oven	92-A-592-S5
EP-48	EU-48	Horizontal Line Drying Oven	92-A-593-S5
<b>Horizontal Line Paint Booth</b>			
EP-35	EU-35	Horizontal Line Paint Booth Stack	92-A-606-S11
EP-37	EU-37	Horizontal Line Paint Booth Stack	92-A-644-S11
EP-38	EU-38	Horizontal Line Paint Booth Stack	92-A-608-S11
EP-68A	EU-68A	Horizontal Line Paint Spray Booth	92-A-645-S11
EP-68B	EU-68B	Horizontal Line Paint Spray Booth	02-A-910-S6
EP-110	EU-110	Horizontal Line Paint Spray Booth	02-A-911-S5
<b>Manual Surface Coating Booth</b>			
EP-147	EU-147	Manual Surface Coating Booth	09-A-569-S3
EP-203	EU-203	Manual Surface Coating Booth	09-A-614-S3
EP-228	EU-228	Manual Surface Coating Booth	11-A-206-S1
<b>Paint Line Cure Ovens</b>			
EP-108A	EU-108A	Paint Line Cure Oven	02-A-086-S1
EP-108B	EU-108B	Paint Line Cure Oven	02-A-087-S1
EP-108C	EU-108C	Paint Line Cure Oven	02-A-088-S1
<b>Paint Spray Booths</b>			
EP-3	EU-3	Paint/Lacquer Spray Booth	05-A-648-S1
EP-8	EU-8	Paint Spray Booth	00-A-181-S6
EP-52	EU-52	Paint Spray Booth - Maintenance Paint Booth	04-A-437-S3
<b>Vertical Line Paint Booths</b>			
EP-29	EU-29	Paint Spray Booth - Hardware Booth	92-A-596-S8
EP-31	EU-31	Vertical Line Paint Booth Stack	92-A-602-S7
EP-32	EU-32	Vertical Line Paint Booth Stack	92-A-603-S7
EP-33	EU-33	Vertical Line Paint Booth Stack	92-A-604-S8
EP-34	EU-34	Vertical Line Paint Booth Stack	92-A-605-S8
<b>Pretreatment System</b>			
EP-74A	EU-74A	Pretreatment System	04-A-1012-S1
EP-74B	EU-74B	Pretreatment System	04-A-1013-S1
EP-103	EU-103	Pretreatment System	01-A-1341-S1
EP-104	EU-104	Pretreatment System	01-A-1342-S2
<b>Sanding Station</b>			
EP-211	EU-211	Sanding Station	09-A-622
EP-212	EU-212	Sanding Station	09-A-635

<b>Emission Point Number</b>	<b>Emission Unit Number</b>	<b>Emission Unit Description</b>	<b>IDNR Construction Permit Number</b>
EP-213	EU-213	Sanding Station	09-A-636
EP-214	EU-214	Sanding Station	09-A-637
EP-215	EU-215	Sanding Station	09-A-638
EP-216	EU-216	Sanding Station	09-A-639
EP-217	EU-217	Sanding Station	09-A-640
EP-218	EU-218	Sanding Station	09-A-641
EP-219	EU-219	Sanding Station	09-A-642
EP-220	EU-220	Sanding Station	09-A-643
EP-223	EU-223	Pre-Finish Sanding Station	10-A-517
<b>Spray Paint Booths</b>			
EP-132	EU-132	Spray Paint Booth #8	08-A-199-S5
EP-136	EU-136	Spray Booth #10 - Prefinish	08-A-357-S4
EP-137	EU-137	Spray Booth #11 - Prefinish	08-A-358-S4
EP-138	EU-138	Spray Booth #12 - Prefinish	08-A-359-S4
EP-140	EU-140	Spray Paint Booth #13	08-A-361-S4
EP-141	EU-141	Spray Paint Booth #14	08-A-362-S4
EP-142	EU-142	Spray Paint Booth #15	08-A-363-S4
EP-144	EU-144	Spray Paint Booth #16 - Prefinish	08-A-365-S4
EP-145	EU-145	Spray Paint Booth #17 - Prefinish	08-A-366-S4
EP-146	EU-146	Spray Paint Booth #18	08-A-367-S3
<b>Surface Coating Applications</b>			
EP-118	EU-118	Stain Booth	07-A-129-S7
EP-119	EU-119	Paint Spray Booth #1	07-A-130-S7
EP-121	EU-121	Surface Coating Application	07-A-132-S7
EP-123	EU-123	Surface Coating Application	07-A-992-S7
EP-125	EU-125	Surface Coating Application	07-A-994-S7
EP-130	EU-130	Surface Coating Application	08-A-197-S5
EP-134	EU-134	Surface Coating Application	08-A-201-S5
EP-229	EU-229	Surface Coating Booth	11-A-734
<b>Surface Prep Units</b>			
EP-160	EU-160	Surface PreP#2	08-A-204-S3
EP-161	EU-161	Surface PreP#3	08-A-205-S3
EP-162	EU-162	Surface Prep #4	08-A-206-S3
EP-163	EU-163	Surface PreP#5	08-A-207-S3
EP-167	EU-167	Surface PreP#9	08-A-211-S3
<b>Topcoat Ovens</b>			
EP-139	EU-139	Topcoat Oven	08-A-360-S3
EP-143	EU-143	Topcoat Oven	08-A-364-S3
<b>Wood Dip/Dry System</b>			
EP-59	EU-59	Wood Treating Stack, Dip	92-A-559-S10
EP-60	EU-60	Wood Treating Stack	92-A-560-S10
EP-62	EU-62	Wood Dip/Dry Unit	92-A-562-S9
EP-63	EU-63	Wood Dip/Dry Unit	92-A-563-S10
EP-96	EU-96	Wood Dip/Dry Unit with Catalytic Oxidizer	01-A-285-S5
EP-169	EU-169	Wood Dip/Dry Unit	09-A-510
EP-19	EU-19	Wood Dust System	79-A-035-S4

<b>Emission Point Number</b>	<b>Emission Unit Number</b>	<b>Emission Unit Description</b>	<b>IDNR Construction Permit Number</b>
EP-21	EU-21	Wood Dust System	92-A-579-S3
EP-27	EU-27	Wood Dust System	92-A-582-S3
EP-28	EU-28	Wood Dust System	92-A-583-S4
EP-30	EU-30	Wood Dust System	92-A-584-S4
EP-54	EU-54	Wood Dust System	92-A-585-S3
EP-55	EU-55	Wood Dust System	92-A-586-S3
EP-69	EU-69	Wood Dust System	98-A-386-S4
EP-71	EU-71	Wood Dust System	10-A-335
EP-72	EU-72	Wood Dust System	None
EP-86	EU-86	Wood Dust System	99-A-189-S3
EP-88	EU-88	Wood Dust System	00-A-017-S4
EP-102	EU-102	Wood Dust System	01-A-1234-S3
<b>Other Units</b>			
EP-7	EU-7	Wood Treating Stack/Vacuum Tank	Grandfathered
EP-39	EU-39	Hardware Batch Drying Oven	92-A-587-S4
EP-53	EU-53B	Sludge Dryer	90-A-156-S1
EP-76	EU-76	Hog-Wood Bin	01-A-995-S1
EP-77	EU-77	Sawdust Silo - Tech Tank	01-A-996-S1
EP-93	EU-93	Model Shop Spray Booth	00-A-541
EP-107	EU-107	Paint Booth - Clad Frame	02-A-085-S2
EP-112	EU-112	Solvent Evaporation - Wood Treating and Drying	03-A-333
EP-115	EU-115	Emergency Generator	04-A-1038
EP-117	EU-117	Welding	05-A-629-S1
EP-CO	EU-CO	Catalytic Oxidizer	98-A-872-S10
EP-CO2	EU-CO2	Catalytic Oxidizer for Paint Lines	07-A-454
EP-Fugitive1	EU-FUG1	Fugitive from Solvent Parts Washer	None
EP-Fugitive2	EU-FUG2	Sealant Application Fugitive Emissions	None
EP-Fugitive3	EU-FUG3	Fugitive from Heated Make Up Air	None
Insig.-3	Insig.-3	Emergency Generator (397 hp)	None
Insig.-4	Insig.-4	Emergency Fire Pump (75 hp)	None
Insig.-12	Insig.-12	Emergency Generator (462hp)	None
EP-A3F	EU-71F	Internal Fugitive from Woodworking Operation	None
EP-A2F	EU-72F	Internal Fugitive from Woodworking Operation	None
EP-222	EU-222	Paint Hook Burn Off Oven	10-A-535
EP-51	EU-51	Surface Metal Grinding	88-A-209

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## Insignificant Activities Equipment List

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Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU-81	Wood Preservative Storage Tank
EU-82	Wood Preservative Drain Tank
EU-83	#2 Fuel Oil Storage Tank
EU-83B	#2 Fuel Oil Storage Tank
INSIG.-1	Indoor Wood Dust Collection System
INSIG.-2	Combustion Unit (Various Heaters for Plant Heating)
INSIG.-5	Aboveground Storage Tank
INSIG.-6	Aboveground Storage Tank
INSIG.-7	Aboveground Storage Tank
INSIG.-8	Solvent Based Parts Cleaning or Washing
INSIG.-9	Welding, Like Process
INSIG.-11	Fugitive Emissions from Dip/Dry Parts
INSIG.-13	Non-Process Air Make-Up Units (9 units total)
INSIG.-14	Can Puncture Station

## II. Plant-Wide Conditions

Facility Name: Pella Corporation – Pella Division

Permit Number: [00-TV-030R2-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 from permit issuance

Commencing on: January 29, 2013

Ending on: January 28, 2018

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

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### Emission Limits

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

Opacity (visible emissions): 40% opacity

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

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

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

#### Particulate Matter:

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

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

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

Fugitive Dust: Attainment and Unclassified Areas - No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

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

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

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#### **40 CFR 60 Subpart A Requirements**

This facility is an affected source and these General Provisions apply to the facility. The affected unit is EP-49.

See Appendix for the link of the Standard.

Applicable requirements are incorporated in the Emission Point Specific conditions.

Authority for Requirements: 40 CFR 60 Subpart A  
567 IAC 23.1(2)

#### **40 CFR 60 Subpart Dc Requirements**

This facility is subject to Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units. The affected unit is EP-49.

See Appendix for the link of the Standard.

Authority for Requirements: 40 CFR 60 Subpart Dc  
567 IAC 23.1(2) "III"

#### **40 CFR 63 Subpart A Requirements**

This facility is an affected source and these General Provisions apply to the facility. The affected units are the units subject to NESHAP Subpart M MMMM, Subpart P PPPP and Subpart Q QQQQ.

See Appendix for the link of the Standard.

Authority for Requirements: 40 CFR 63 Subpart A  
567 IAC 23.1(4)

#### **40 CFR 63 Subpart M MMMM Requirements**

This facility is subject to National Emission Standard for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products. The affected units are EP-CO2, Drying Ovens (EP-39, EP-40, EP-41, EP-42, EP-47, EP-48), Paint Booths (EP-8, EP-29, EP-31, EP-32, EP-33, EP-34, EP-35, EP-37, EP-38, EP-38A, EP-68B, EP-110, EP-229).

See Appendix B for the link of the Standard.

Authority for Requirements: 40 CFR 63 Subpart M MMMM  
567 IAC 23.1(4) "cm"

#### **40 CFR 63 Subpart P PPPP Requirements**

This facility is subject to National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products. The affected units are EP-229 and EP-230.

See Appendix for the link of the Standard.

Authority for Requirements: 40 CFR 63 Subpart P PPPP  
567 IAC 23.1(4) "cp"

#### **40 CFR 63 Subpart QQQQ Requirements**

This facility is subject to National Emission Standard for Hazardous Air Pollutants: Surface Coating of Wood Building Products. The affected units are Ovens (EP-120, EP-122, EP-124, EP-126, EP-131, EP-133, EP-135, EP-152, EP-173, EP-174, EP-179, EP-180, EP-183, EP-199, EP-205, EP-225, EP-227, EP-236 and EP-237, EP-108A, EP-108B, EP-108C, EP-139, EP-143), Spray, Painting, Surface Coating Booths (EP-147, EP-203, EP-228, EP-155, EP-156, EP-175, EP-176, EP-177, EP-181, EP-182, EP-195, EP-224, EP-226, EP-232, EP-233, EP-234, EP-235, EP-107, EP-119, EP-3, EP-132, EP-136, EP-137, EP-138, EP-140, EP-141, EP-142, EP-144, EP-145, EP-146, EP-118, EP-121, EP-123, EP-125, EP-130, EP-134, EP-229, EP-160, EP-161, EP-162, EP-163, EP-134, EP-167), Wood Treating Units (EP-169, EP-62, EP-63, EP-96, EP-59, EP-60).

See Appendix for the link of the Standard.

Authority for Requirements: 40 CFR 63 Subpart QQQQ  
567 IAC 23.1(4) "cq"

#### **40 CFR 63 Subpart ZZZZ Requirements**

This facility is subject to National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (RICE NESHAP) [40 CFR Part 63 Subpart ZZZZ]. The affected units are Insig.-3, Insig.-4, Insig.-12.

See Appendix for the link of the Standard.

Authority for Requirements: 40 CFR 63 Subpart ZZZZ

#### **40 CFR 63 Subpart DDDDD Requirements**

This facility is subject to National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters (Boiler MACT) [40 CFR Part 63 Subpart DDDDD]. The affect units are EP-2, EP-14, EP-16, EP-49, EP-39, EP-108A, [EP-108B](#) and [EP-108C](#).

See Appendix for the link of the Standard.

Authority for Requirements: 40 CFR 63 Subpart DDDDD

### III. Emission Point-Specific Conditions

Facility Name: Pella Corporation – Pella Division

Permit Number: 00-TV-030R2-M001

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#### **Emission Point ID Number: EP-2**

##### Associated Equipment

Associated Emission Unit ID Numbers: EU-2

Emissions Control Equipment ID Number: None

Emissions Control Equipment Description: NA

Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-2

Emission Unit Description: Boiler #2

Raw Material/Fuel: Natural Gas with Fuel Oil Backup

Rated Capacity: 8.37 MMBtu/hr

#### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: Iowa DNR Construction Permit 04-A-1010-S2  
567 IAC 23.3(2) "d"

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

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

Emission Limit(s): 0.50 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 04-A-1010-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.6 lb/MMBtu

Authority for Requirement: Iowa DNR Construction Permit 04-A-1010-S2  
567 IAC 23.3(2) "b"

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

Emission Limit(s): 2.5 lb/MMBtu; 500 ppmv

Authority for Requirement: Iowa DNR Construction Permit 04-A-1010-S2  
567 IAC 23.3(3) "b"  
567 IAC 23.3(3) "e"

### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. The emission unit may operate on natural gas as the main fuel and fuel oil #2 or #1 as the backup fuel.
- B. The maximum sulfur content in the fuel oil shall not exceed a sulfur content weight percent of 0.5%.
- C. This source is limited to 7,168 hours of operation per twelve-month rolling period, rolled monthly, while burning fuel oil.

#### **Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. Maintain records of the sulfur content in the fuel when fuel oil is being combusted.
- B. The owner or operator shall record the hours this unit combusts fuel oil, and update the rolling twelve month total hours of operation on fuel oil on a monthly basis.

Authority for Requirement: Iowa DNR Construction Permit 04-A-1010-S2

#### **NSPS and NESHAP Applicability**

This emission unit is subject to National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters [40 CFR Part 63 Subpart DDDDD].

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

#### **Emission Point Characteristics**

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

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

Stack Opening, (inches, dia.): 16

Exhaust Flow Rate (scfm): 1,320

Exhaust Temperature (°F): 350

Discharge Style: Vertical Obstructed

Authority for Requirement: Iowa DNR Construction Permit 04-A-1010-S2

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP-14**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-14  
Emissions Control Equipment ID Number: None  
Emissions Control Equipment Description: NA  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-14  
Emission Unit Description: Boiler #3  
Raw Material/Fuel: Natural Gas with Fuel Oil #2 Backup  
Rated Capacity: 14.65 lb/MMBtu

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: Iowa DNR Construction Permit 04-A-1011-S2  
567 IAC 23.3(2) "d"

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

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

Emission Limit(s): 0.88 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 04-A-1011-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.6 lb/MMBtu

Authority for Requirement: Iowa DNR Construction Permit 04-A-1011-S2  
567 IAC 23.3(2) "b"

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

Emission Limit(s): 2.5 lb/MMBtu; 500 ppmv

Authority for Requirement: Iowa DNR Construction Permit 04-A-1011-S2  
567 IAC 23.3(3) "b"  
567 IAC 23.3(3) "e"

### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. The emission unit may operate on natural gas as the main fuel and fuel oil #2 or #1 as the backup fuel.
- B. The maximum sulfur content in the fuel oil shall not exceed a sulfur content weight percent of 0.5%.
- C. This source is limited to 4,095 hours of operation per twelve-month rolling period, rolled monthly, while burning fuel oil.

#### **Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. Maintain records of the sulfur content in the fuel when fuel oil is being combusted.
- B. The owner or operator shall record the hours this unit combusts fuel oil, and update the rolling twelve-month total hours of operation on fuel oil on a monthly basis.

Authority for Requirement: Iowa DNR Construction Permit 04-A-1011-S2

#### **NSPS and NESHAP Applicability**

This emission unit is subject to National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters [40 CFR Part 63 Subpart DDDDD].

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

#### **Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 36

Stack Opening, (inches, dia.): 19

Exhaust Flow Rate (scfm): 2,606

Exhaust Temperature (°F): 350

Discharge Style: Vertical Obstructed

Authority for Requirement: Iowa DNR Construction Permit 04-A-1011-S2

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP-16**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-16  
Emissions Control Equipment ID Number: None  
Emissions Control Equipment Description: NA  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-16  
Emission Unit Description: Boiler #4  
Raw Material/Fuel: Natural Gas with Fuel Oil #2 Backup  
Rated Capacity: 14.65 lb/MMBtu

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: Iowa DNR Construction Permit 01-A-994-S3  
567 IAC 23.3(2) "d"

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

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

Emission Limit(s): 0.26 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 01-A-994-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.6 lb/MMBtu

Authority for Requirement: Iowa DNR Construction Permit 01-A-994-S3  
567 IAC 23.3(2) "b"

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

Emission Limit(s): 2.5 lb/MMBtu (for #2 fuel oil only); 500 ppmv (for natural gas only)

Authority for Requirement: Iowa DNR Construction Permit 01-A-994-S3  
567 IAC 23.3(3) "b"  
567 IAC 23.3(3) "e"

### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. The emission unit may operate on natural gas as the main fuel and fuel oil #2 or #1 as the backup fuel.
- B. The maximum sulfur content in the fuel oil shall not exceed a sulfur content weight percent of 0.5%.

#### **Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. Maintain records of the sulfur content in the fuel when fuel oil is being combusted.

Authority for Requirement: Iowa DNR Construction Permit 01-A-994-S3

#### **NSPS and NESHAP Applicability**

This emission unit is subject to National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters [40 CFR Part 63 Subpart DDDDD].

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

#### **Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 36

Stack Opening, (inches, dia.): 20

Exhaust Flow Rate (scfm): 4,410

Exhaust Temperature (°F): 350

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 01-A-994-S3

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP-49**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-49  
Emissions Control Equipment ID Number: None  
Emissions Control Equipment Description: NA  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-49  
Emission Unit Description: Boiler #6  
Raw Material/Fuel: Natural Gas with Fuel Oil #2 Backup  
Rated Capacity: 22.6 MMBtu/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: Iowa DNR Construction Permit 88-A-186-S3  
567 IAC 23.3(2) "d"

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

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

Emission Limit(s): 1.2 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 88-A-186-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.2 lb/hr; 0.6 lb/MMBtu

Authority for Requirement: Iowa DNR Construction Permit 88-A-186-S3  
567 IAC 23.3(2) "b"

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

Emission Limit(s): 1.07 lb/hr; 2.5 lb/MMBtu; 500 ppmv

Authority for Requirement: Iowa DNR Construction Permit 88-A-186-S3  
567 IAC 23.3(3) "b"  
567 IAC 23.3(3) "e"

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

Emission Limit(s): 3.0 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 88-A-186-S3

### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. The emission unit may operate on natural gas or fuel oil #2.
- B. The maximum sulfur content in the fuel oil shall not exceed a sulfur content weight percent of 0.5%.

#### **Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. Maintain records of the sulfur content in the fuel when fuel oil is being combusted. This may be done by fuel supplier certification which includes the name of the oil supplier, and a statement that the oil complies with the specifications under the definition of distillate oil in §60.41c. (40 CFR §60.48c(f)).
- B. The owner or operator shall record the amount of each fuel combusted during each day (40 CFR §60.48c(g)).

Authority for Requirement: Iowa DNR Construction Permit 88-A-186-S3

#### **NSPS and NESHAP Applicability**

This emission unit is subject to the NSPS Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.

Authority for Requirement: Iowa DNR Construction Permit 88-A-186-S3

This emission unit is subject to National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters [40 CFR Part 63 Subpart DDDDD].

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

#### **Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 45

Stack Opening, (inches, dia.): 32

Exhaust Flow Rate (scfm): 14,400

Exhaust Temperature (°F): 450

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 88-A-186-S3

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: Electric Ovens

**Table Electric Ovens-1**

EP	EU	Emission Unit Description	Raw Material	Rated Capacity, ft/hr
EP-120	EU-120	Electric/IR Dry-off Oven #1	Electricity	360.0
EP-122	EU-122	Electric/IR Dry-off Oven #2	Electricity	360.0
EP-124	EU-124	Electric/IR Dry-off Oven #3	Electricity	360.0
EP-126	EU-126	Electric/IR Dry-off Oven #4	Electricity	360.0
EP-131	EU-131	Electric/IR Dry-off Oven #6	Electricity	360.0
EP-133	EU-133	Electric/IR Dry-off Oven #7	Electricity	360.0
EP-135	EU-135	Electric/IR Dry-off Oven #8	Electricity	360.0
EP-152	EU-152	Electric Oven	Electricity	360.0
EP-173	EU-173	Electric Oven	Electricity	360.0
EP-174	EU-174	Electric Oven	Electricity	360.0
EP-179	EU-179	Electric Oven	Electricity	360.0
EP-180	EU-180	Electric Oven	Electricity	360.0
EP-183	EU-183	Electric Oven	Electricity	360.0
EP-199	EU-199	Electric Oven	Electricity	360.0
EP-205	EU-205	Electric Oven	Electricity	360.0
EP-225	EU-225	Electric Oven	Electricity	360.0
EP-227	EU-227	Electric Oven	Electricity	360.0

**Table Electric Ovens-2**

EP	EU	Emission Unit Description	CE	CEM	IDNR Construction Permit
EP-120	EU-120	Electric/IR Dry-off Oven #1	None	None	07-A-131-S7
EP-122	EU-122	Electric/IR Dry-off Oven #2	None	None	07-A-133-S7
EP-124	EU-124	Electric/IR Dry-off Oven #3	None	None	07-A-993-S5
EP-126	EU-126	Electric/IR Dry-off Oven #4	None	None	07-A-995-S6
EP-131	EU-131	Electric/IR Dry-off Oven #6	None	None	08-A-198-S4
EP-133	EU-133	Electric/IR Dry-off Oven #7	None	None	08-A-200-S5
EP-135	EU-135	Electric/IR Dry-off Oven #8	None	None	08-A-202-S4
EP-152	EU-152	Electric Oven	None	None	09-A-574-S2
EP-173	EU-173	Electric Oven	None	None	09-A-584-S2
EP-174	EU-174	Electric Oven	None	None	09-A-585-S1
EP-179	EU-179	Electric Oven	None	None	09-A-590-S2
EP-180	EU-180	Electric Oven	None	None	09-A-591-S2
EP-183	EU-183	Electric Oven	None	None	09-A-594-S1
EP-199	EU-199	Electric Oven	None	None	09-A-610-S1
EP-205	EU-205	Electric Oven	None	None	09-A-616-S2
EP-225	EU-225	Electric Oven	None	None	11-A-188-S1
EP-227	EU-227	Electric Oven	None	None	11-A-190-S1

## Applicable Requirements

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

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

**Table Electric Ovens-3**

EP	EU	Opacity	PM10	PM	PM
EP-120	EU-120	40% <sup>(1)</sup>	0.005 lb/hr	0.005 lb/hr	0.1 gr/dscf
EP-122	EU-122	40% <sup>(1)</sup>	0.005 lb/hr	0.005 lb/hr	0.1 gr/dscf
EP-124	EU-124	40% <sup>(1)</sup>	0.005 lb/hr	0.005 lb/hr	0.1 gr/dscf
EP-126	EU-126	40% <sup>(1)</sup>	0.005 lb/hr	0.005 lb/hr	0.1 gr/dscf
EP-131	EU-131	40% <sup>(1)</sup>	0.005 lb/hr	0.005 lb/hr	0.1 gr/dscf
EP-133	EU-133	40% <sup>(1)</sup>	0.005 lb/hr	0.005 lb/hr	0.1 gr/dscf
EP-135	EU-135	40% <sup>(1)</sup>	0.005 lb/hr	0.005 lb/hr	0.1 gr/dscf
EP-152	EU-152	40% <sup>(1)</sup>	0.005 lb/hr	0.005 lb/hr	0.1 gr/dscf
EP-173	EU-173	40% <sup>(1)</sup>	0.005 lb/hr	0.005 lb/hr	0.1 gr/dscf
EP-174	EU-174	40% <sup>(1)</sup>	0.005 lb/hr	0.005 lb/hr	0.1 gr/dscf
EP-179	EU-179	40% <sup>(1)</sup>	0.005 lb/hr	0.005 lb/hr	0.1 gr/dscf
EP-180	EU-180	40% <sup>(1)</sup>	0.005 lb/hr	0.005 lb/hr	0.1 gr/dscf
EP-183	EU-183	40% <sup>(1)</sup>	0.005 lb/hr	0.005 lb/hr	0.1 gr/dscf
EP-199	EU-199	40% <sup>(1)</sup>	0.005 lb/hr	0.005 lb/hr	0.1 gr/dscf
EP-205	EU-205	40% <sup>(1)</sup>	0.005 lb/hr	0.005 lb/hr	0.1 gr/dscf
EP-225	EU-225	40% <sup>(1)</sup>	0.005 lb/hr	0.005 lb/hr	0.1 gr/dscf
EP-227	EU-227	40% <sup>(1)</sup>	0.005 lb/hr	0.005 lb/hr	0.1 gr/dscf

<sup>(1)</sup>If visible emissions are observed other than start-up, shut-down, or malfunction, a stack test maybe required to demonstrate compliance with the particulate standard.

**Table Electric Ovens-4**

Pollutant	Emission Limits	Authority of Requirement
Opacity	40%	IDNR construction permits listed in Table 2 567 IAC 23.3(2) "d"
PM10	0.005 lb/hr	IDNR construction permits listed in Table 2
PM	0.005 lb/hr	IDNR construction permits listed in Table 2
PM	0.1 gr/dscf	IDNR construction permits listed in Table 2 567 IAC 23.3(2) "a"

### Operational Limits & Requirements

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

Operational limits are not required for these units at this time.

**NSPS and NESHAP Applicability**

These emission units are subject to NESHAP Subpart A – General Provisions and Subpart QQQQ – National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products.

Authority for Requirement: Iowa DNR Construction Permits listed in Table 2.

**Emission Point Characteristics**

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

**Table Electric Ovens-5**

	Stack Height (ft, from the ground)	Stack Opening (dia. inch)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement IDNR Construction Permit
EP-120	33	10	460-1325	120	Vertical Unobstructed	07-A-131-S7
EP-122	33	10	460-1325	120	Vertical Unobstructed	07-A-133-S7
EP-124	32	12	1500	Ambient	Vertical Unobstructed	07-A-993-S5
EP-126	32	12	460-1325	120	Vertical Unobstructed	07-A-995-S6
EP-131	40	12	460-1325	120	Vertical Unobstructed	08-A-198-S4
EP-133	38	10	460-1325	120	Vertical Unobstructed	08-A-200-S5
EP-135	33.5	12	460-1325	120	Vertical Unobstructed	08-A-202-S4
EP-152	33.5	8	460-1325	120	Vertical Unobstructed	09-A-574-S2
EP-173	32	12	460-1325	120	Vertical Unobstructed	09-A-584-S2
EP-174	32	12	1500	Ambient	Vertical Unobstructed	09-A-585-S1
EP-179	32	12	460-1325	120	Vertical Unobstructed	09-A-590-S2
EP-180	32	12	460-1325	120	Vertical Unobstructed	09-A-591-S2
EP-183	37.5	12	1500	Ambient	Vertical Unobstructed	09-A-594-S1
EP-199	37.5	12	1500	Ambient	Vertical Unobstructed	09-A-610-S1
EP-205	37	10	460-1325	120	Vertical Unobstructed	09-A-616-S2
EP-225	33	12	460-1325	120	Vertical Unobstructed	11-A-188-S1
EP-227	33	12	460-1325	120	Vertical Unobstructed	11-A-190-S1

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP-230**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-230  
Emissions Control Equipment ID Number: None  
Emissions Control Equipment Description: NA  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-230  
Emission Unit Description: Entry Door Curing Oven  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 5.5 MMBtu/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: Iowa DNR Construction Permit 11-A-735  
567 IAC 23.3(2) "d"

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

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

Emission Limit(s): 0.005 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 11-A-735

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.005 lb/hr; 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 11-A-735  
567 IAC 23.3(2) "d"

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

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

Operational limits are not required for these emission units at this time.

#### **NSPS and NESHAP Applicability**

EP-230 is subject to the following NESHAP Subparts:

NESHAP Subpart A – General Provisions

Subpart QQQQ – National Emission Standard for Hazardous Air Pollutants: Surface Coating of Wood Building Products

NESHAP Subpart MMMM – National Emission Standard for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products

NESHAP Subpart P- National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products

Authority for Requirement: Iowa DNR Construction Permit 11-A-735

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 33

Stack Opening, (inches, dia.): 12

Exhaust Flow Rate (scfm): 457-914

Exhaust Temperature (°F): 120

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 11-A-735

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: Entry Door Curing Ovens

### Associated Equipment

Associated Emission Unit ID Numbers: EU-236 and EU-237

Emissions Control Equipment ID Number: None

Emissions Control Equipment Description: NA

Continuous Emissions Monitors ID Numbers: None

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EP	EU	Emission Unit Description	Raw Material	Rated Capacity	Con. Permit
EP-236	EU-236	Entry Door Curing Oven	Electricity	360.0 ft/hr	12-A-115
EP-237	EU-237	Entry Door Curing Oven	Electricity	360.0 ft/hr	12-A-116

### Applicable Requirements

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

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

Pollutant: Opacity

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

Authority for Requirement: Iowa DNR Construction Permit 12-A-115; 12-A-116  
567 IAC 23.3(2) "d"

<sup>(1)</sup>If visible emissions are observed other than start-up, shut-down, or malfunction, a stack test maybe required to demonstrate compliance with the particulate standard.

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

Emission Limit(s): 0.005 lb/hr

Authority for Requirement: Iowa DNR Construction 12-A-115; 12-A-116

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.005 lb/hr; 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 12-A-115; 12-A-116  
567 IAC 23.3(2) "d"

#### Operational Limits & Requirements

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

Operational limits are not required for these emission units at this time.

#### **NSPS and NESHAP Applicability**

These emission units are subject to NESHAP Subpart A – General Provisions and Subpart QQQQ – National Emission Standard for Hazardous Air Pollutants: Surface Coating of Wood Building Products.

Authority for Requirement: Iowa DNR Construction Permit 12-A-115; 12-A-116

**Emission Point Characteristics**

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

	Stack Height (ft, from the ground)	Stack Opening (dia. inch)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement IDNR Construction Permit
EP-236	32	12	457-914	120	Vertical Unobstructed	12-A-115
EP-237	32	12	457-914	120	Vertical Unobstructed	12-A-116

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: Half Auto Surface Coating Booths

**Table Surface Coating Booths-1**

EP	EU	Emission Unit Description	Raw Material	Rated Capacity, gal/hr
EP-155	EU-155	Half Auto Surface Coating Booth	Paint, Stain, Vanish	26.0
EP-156	EU-156	Half Auto Surface Coating Booth	Paint, Stain, Vanish	26.0
EP-175	EU-175	Half Auto Surface Coating Booth	Paint, Stain, Vanish	26.0
EP-176	EU-176	Half Auto Surface Coating Booth	Paint, Stain, Vanish	26.0
EP-177	EU-177	Half Auto Surface Coating Booth	Paint, Stain, Vanish	26.0
EP-181	EU-181	Half Auto Surface Coating Booth	Paint, Stain, Vanish	26.0
EP-182	EU-182	Half Auto Surface Coating Booth	Paint, Stain, Vanish	26.0
EP-195	EU-195	Half Auto Surface Coating Booth	Paint, Stain, Vanish	26.0
EP-224	EU-224	Half Auto Surface Coating Booth	Paint, Stain, Vanish	26.0
EP-226	EU-226	Half Auto Surface Coating Booth	Paint, Stain, Vanish	26.0
EP-232	EU-232	Half Auto Surface Coating Booth	Paint, Stain, Vanish	26.0
EP-233	EU-233	Half Auto Surface Coating Booth	Paint, Stain, Vanish	26.0
EP-234	EU-234	Half Auto Surface Coating Booth	Paint, Stain, Vanish	26.0
EP-235	EU-235	Half Auto Surface Coating Booth	Paint, Stain, Vanish	26.0

**Table Surface Coating Booths -2**

EP	EU	Emission Unit Description	CE & Description	CEM	IDNR Construction Permit
EP-155	EU-155	Half Auto Surface Coating Booth	CE-155/Dry Filter	None	09-A-577-S3
EP-156	EU-156	Half Auto Surface Coating Booth	CE-156/Dry Filter	None	09-A-578-S3
EP-175	EU-175	Half Auto Surface Coating Booth	CE-175/Dry Filter	None	09-A-586-S3
EP-176	EU-176	Half Auto Surface Coating Booth	CE-176/Dry Filter	None	09-A-587-S3
EP-177	EU-177	Half Auto Surface Coating Booth	CE-177/Dry Filter	None	09-A-588-S3
EP-181	EU-181	Half Auto Surface Coating Booth	CE-181/Dry Filter	None	09-A-592-S2
EP-182	EU-182	Half Auto Surface Coating Booth	CE-182/Dry Filter	None	09-A-593-S2
EP-195	EU-195	Half Auto Surface Coating Booth	CE-195/Dry Filter	None	09-A-606-S2
EP-224	EU-224	Half Auto Surface Coating Booth	CE-224/Dry Filter	None	11-A-187-S1
EP-226	EU-226	Half Auto Surface Coating Booth	CE-226/Dry Filter	None	11-A-189-S1
EP-232	EU-232	Half Auto Surface Coating Booth	CE-232/Dry Filter	None	12-A-111
EP-233	EU-233	Half Auto Surface Coating Booth	CE-233/Dry Filter	None	12-A-112
EP-234	EU-234	Half Auto Surface Coating Booth	CE-234/Dry Filter	None	12-A-113
EP-235	EU-235	Half Auto Surface Coating Booth	CE-235/Dry Filter	None	12-A-114

## Applicable Requirements

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

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

**Table Surface Coating Booths -3**

EP	EU	Opacity	PM10	PM	PM
EP-155	EU-155	40% <sup>(2)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf
EP-156	EU-156	40% <sup>(2)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf
EP-175	EU-175	40% <sup>(2)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf
EP-176	EU-176	40% <sup>(2)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf
EP-177	EU-177	40% <sup>(2)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf
EP-181	EU-181	40% <sup>(2)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf
EP-182	EU-182	40% <sup>(2)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf
EP-195	EU-195	40% <sup>(2)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf
EP-224	EU-224	40% <sup>(2)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf
EP-226	EU-226	40% <sup>(2)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf
EP-232	EU-232	40% <sup>(2)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf
EP-233	EU-233	40% <sup>(2)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf
EP-234	EU-234	40% <sup>(2)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf
EP-235	EU-235	40% <sup>(2)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf

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

<sup>(2)</sup> If visible emissions are observed other than start-up, shut-down, or malfunction, a stack test maybe required to demonstrate compliance with the particulate standard.

**Table Surface Coating Booths -4**

Pollutant	Emission Limits	Authority of Requirement
Opacity	40%	IDNR construction permits listed in Table 2 567 IAC 23.3(2) "d"
PM10	0.03 lb/hr	IDNR construction permits listed in Table 2
PM	0.03 lb/hr	IDNR construction permits listed in Table 2
PM	0.01 gr/dscf	IDNR construction permits listed in Table 2 567 IAC 23.4(13)

### Operational Limits & Requirements

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

- A. The VOC content of any coating material (e.g. primer, stain, clearcoat, topcoat, thickener) used in all surface coating operation associated with the pre-finished product line shall not exceed 1.70 pounds per gallon as applied.
- B. The amount of any coating material (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content less than or equal to 0.33 pounds per gallon used in the pre-finished product line shall not exceed 40,000 gallons per twelve (12) month rolling period, rolled monthly.
- C. The amount of any coating material (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content greater than 0.33 pounds per gallon and less than or equal to 0.56 pounds

per gallon used in the pre-finished product line shall not exceed 17,000 gallons per twelve (12) month rolling period, rolled monthly.

- D. The amount of any coating material (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content greater than 0.56 pounds per gallon and less than or equal to 0.93 pounds per gallon used in the pre-finished product line shall not exceed 25,000 gallons per twelve (12) month rolling period, rolled monthly.
- E. The amount of any coating material (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content greater than 0.93 pounds per gallon and less than or equal to 1.15 pounds per gallon used in the pre-finished product line shall not exceed 28,000 gallons per twelve (12) month rolling period, rolled monthly.
- F. The amount of any coating material (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content greater than 1.15 pounds per gallon and less than or equal to 1.70 pounds per gallon used in the pre-finished product line shall not exceed 15 gallons per twelve (12) month rolling period, rolled monthly.
- G. The filters used in this emissions unit shall be operated and maintained in accordance with the recommendations of the manufacturer.
- H. The permittee shall maintain the MSDS of materials used in the paint booth on site.

Authority for Requirement: Iowa DNR Construction Permit listed in Table 2.

### **Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. The permittee shall maintain records on the identification and the VOC content of each material used in this emissions unit.
- B. At the end of each month, record the number of gallons of coating materials (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content of less than or equal to 0.33 pounds per gallon that were used in the pre-finished product line over the previous month. Calculate and record the rolling 12-month total.
- C. At the end of each month, record the number of gallons of coating materials (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content of greater than 0.33 pounds per gallon and less than or equal to 0.56 pounds per gallon that were used in the pre-finished product line over the previous month. Calculate and record the rolling 12-month total.
- D. At the end of each month, record the number of gallons of coating materials (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content of greater than 0.56 pounds per gallon and less than or equal to 0.93 pounds per gallon that were used in the pre-finished product line over the previous month. Calculate and record the rolling 12-month total.
- E. At the end of each month, record the number of gallons of coating materials (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content of greater than 0.93 pounds per gallon and less than or equal to 1.15 pounds per gallon that were used in the pre-finished product line over the previous month. Calculate and record the rolling 12-month total.
- F. At the end of each month, record the number of gallons of coating materials (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content of greater than 1.15 pounds per gallon and less than or equal to 1.70 pounds per gallon that were used in the pre-finished product line over the previous month. Calculate and record the rolling 12-month total.

- G. The permittee shall submit notifications as required by §63.4710; the permittee shall submit required reports in accordance with §63.4720.
- H. The permittee shall maintain the necessary records in accordance with §63.4730 and §63.4731.
- I. If using the Compliant Material Option to comply with the HAP limit, the permittee shall follow the requirements of §63.4740, §63.4741, and §63.4742.
- J. If using the Emission Rate without Add-on Control Option to comply with the HAP limit, the permittee shall follow the requirements of §63.4750, §63.4751, and §63.4752.
- K. The permittee shall maintain records on the types of dry filters used in this emissions unit.

Authority for Requirement: Iowa DNR Construction Permit listed in Table 2.

**NSPS and NESHAP Applicability**

These emission units are subject to NESHAP Subpart A – General Provisions and Subpart QQQQ – National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products.

Authority for Requirement: Iowa DNR Construction Permits listed in Table 2.

**Emission Point Characteristics**

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

**Table Surface Coating Booths -5**

	Stack Height (ft, from the ground)	Stack Opening (dia. inch)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement IDNR Construction Permit
EP-155	32	14	1200-2600	70	Vertical Unobstructed	09-A-577-S3
EP-156	32	14	1200-2600	70	Vertical Unobstructed	09-A-578-S3
EP-175	31	14	1200-2600	70	Vertical Unobstructed	09-A-586-S3
EP-176	31	14	1200-2600	70	Vertical Unobstructed	09-A-587-S3
EP-177	32	14	1200-2600	70	Vertical Unobstructed	09-A-588-S3
EP-181	37.5	14	2000-3600	70	Vertical Unobstructed	09-A-592-S2
EP-182	37.5	14	2000-3600	70	Vertical Unobstructed	09-A-593-S2
EP-195	37.5	14	2000-3600	70	Vertical Unobstructed	09-A-606-S2
EP-224	31	14	1200-2600	70	Vertical Unobstructed	11-A-187-S1
EP-226	31	14	1200-2600	70	Vertical Unobstructed	11-A-189-S1
EP-232	32	14	500-1250	Ambient	Vertical Unobstructed	12-A-111
EP-233	32	14	500-1250	Ambient	Vertical Unobstructed	12-A-112
EP-234	32	14	500-1250	Ambient	Vertical Unobstructed	12-A-113
EP-235	32	14	500-1250	Ambient	Vertical Unobstructed	12-A-114

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: Vertical Line Drying Ovens

### Associated Equipment

Associated Emission Unit ID Numbers: EP-40, EP-41, EP-42

Emissions Control Equipment ID Number: None

Emissions Control Equipment Description: NA

Continuous Emissions Monitors ID Numbers: None

**Table Vertical Line Drying Oven-1**

EP	EU	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EP-40	EU-40	Vertical Line Drying Oven	Natural Gas	3.68 MMBtu/hr	92-A-588-S5
EP-41	EU-41	Vertical Line Drying Oven	Natural Gas	6.30 MMBtu/hr	92-A-589-S5
EP-42	EU-42	Vertical Line Drying Oven	Natural Gas	6.30 MMBtu/hr	92-A-590-S5

### **Applicable Requirements**

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

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

**Table Vertical Line Drying Oven-2**

EP	EU	Opacity	PM10	PM	VOC	SO <sub>2</sub>
EP-40	EU-40	40% <sup>(1)</sup>	0.03 lb/hr	0.1 gr/dscf	0.9 ton/yr <sup>(2)</sup>	500 ppmv
EP-41	EU-41	40% <sup>(1)</sup>	0.06 lb/hr	0.1 gr/dscf	0.9 ton/yr <sup>(2)</sup>	500 ppmv
EP-42	EU-42	40% <sup>(1)</sup>	0.06 lb/hr	0.1 gr/dscf	0.9 ton/yr <sup>(2)</sup>	500 ppmv

<sup>(1)</sup>If visible emissions are observed other than start-up, shutdown or malfunction, the owner/operator is required to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

<sup>(2)</sup>This is a bubble limit set on EU-40, EU-41, EU-42, EU-46\*, EU-47 and EU-48. The limit was set through a netting process from 1987, revised in 1992 and February 2000.

\*: removed from service

**Table Vertical Line Drying Oven-3**

Pollutant	Emission Limits	Authority of Requirement
Opacity	40%	IDNR construction permits listed in Table 1 567 IAC 23.3(2) "d"
PM10	0.06 lb/hr	IDNR construction permits listed in Table 1
PM	0.1 gr/dscf	IDNR construction permits listed in Table 1 567 IAC 23.3(2) "a"
VOC	0.9 ton/yr	IDNR construction permits listed in Table 1
SO <sub>2</sub>	500 ppmv	567 IAC 23.3(3) "e"

**Operational Limits & Requirements**

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

**Operating Limits (EP-41 and EP-42)\***

A. These units shall use only natural gas as the fuel source.

**Reporting and Recordkeeping (EP-41 and EP-42)\***

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

A. The facility shall keep records of the type of fuel used in these units.

Authority for Requirement: Iowa DNR Construction Permits listed in Table 1.

\*: There are no operational limits required for EP-40.

**NSPS and NESHAP Applicability**

These units are subject to NESHAP Subpart A – General Provisions and Subpart M – National Emission Standards for Hazardous Air Pollutants: Surface Coating of Miscellaneous Metal Parts and Products.

Authority for Requirement: Iowa DNR Construction Permits listed in Table 1.

**Emission Point Characteristics**

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

**Table Vertical Line Drying Oven-4**

	Stack Height (ft, from the ground)	Stack Opening (dia. inch)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement IDNR Construction Permit
EP-40	57	18.5	3,600	500	Vertical Obstructed	92-A-588-S5
EP-41	53	29	1,900	450	Vertical Obstructed	92-A-589-S5
EP-42	53	29	3,400	550	Vertical Obstructed	92-A-590-S5

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: Horizontal Line Paint Booths

### Associated Equipment

**Table Horizontal Line Paint Booths-1**

EP	EU	Emission Unit Description	Raw Material	Rated Capacity, gal/hr
EP-35	EU-35	Horizontal Line Paint Booth Stack	Paint	5.0
EP-37	EU-37	Horizontal Line Paint Booth Stack	Paint	20.0
EP-38	EU-38	Horizontal Line Paint Booth Stack	Paint	15.0
EP-68A	EU-68A	Horizontal Line Paint Spray Booth	Paint	15.0
EP-68B	EU-68B	Horizontal Line Paint Spray Booth	Paint	15.0
EP-110	EU-110	Horizontal Line Paint Spray Booth	Paint	5.0

**Table Horizontal Line Paint Booths-2**

EP	EU	Emission Unit Description	CE	CEM	IDNR Construction Permit
EP-35	EU-35	Horizontal Line Paint Booth Stack	CE-35*;CE-CO2**	None	92-A-606-S11
EP-37	EU-37	Horizontal Line Paint Booth Stack	CE-37*;CE-CO2**	None	92-A-644-S11
EP-38	EU-38	Horizontal Line Paint Booth Stack	CE-38*;CE-CO2**	None	92-A-608-S11
EP-68A	EU-68A	Horizontal Line Paint Spray Booth	CE-68A*;CE-CO2**	None	92-A-645-S11
EP-68B	EU-68B	Horizontal Line Paint Spray Booth	CE-68B*;CE-CO2**	None	02-A-910-S6
EP-110	EU-110	Horizontal Line Paint Spray Booth	CE-110*;CE-CO2**	None	02-A-911-S5

\*: Dry Filters

\*\*: Catalytic Oxidizer

## Applicable Requirements

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

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

**Table Horizontal Line Paint Booths-3**

EP	EU	Opacity	PM10	PM	VOC
EP-35	EU-35	40% <sup>(1)</sup>	0.08 lb/hr	0.01 gr/dscf	60.0 ton/yr <sup>(2)</sup>
EP-37	EU-37	40% <sup>(1)</sup>	0.09 lb/hr	0.01 gr/dscf	60.0 ton/yr <sup>(2)</sup>
EP-38	EU-38	40% <sup>(1)</sup>	0.09 lb/hr	0.01 gr/dscf	60.0 ton/yr <sup>(2)</sup>
EP-68A	EU-68A	40% <sup>(1)</sup>	0.12 lb/hr	0.01 gr/dscf	60.0 ton/yr <sup>(2)</sup>
EP-68B	EU-68B	40% <sup>(1)</sup>	0.08 lb/hr	0.01 gr/dscf	60.0 ton/yr <sup>(2)</sup>
EP-110	EU-110	40% <sup>(1)</sup>	0.08 lb/hr	0.01 gr/dscf	60.0 ton/yr <sup>(2)</sup>

<sup>(1)</sup>If visible emissions are observed, the owner/operator shall promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

<sup>(2)</sup>The total VOC PTE shall not exceed 60 tons per twelve-month rolling period for the following emission points: EP-35, EP-37, EP-38, EP-48, EP-68A, EP-68B, EP-110 & EP-CO2.

**Table Horizontal Line Paint Booths-4**

<b>Pollutant</b>	<b>Emission Limits</b>	<b>Authority of Requirement</b>
Opacity	40%	IDNR construction permits listed in Table 2 567 IAC 23.3(2) "d"
PM10	Limits in Table2	IDNR construction permits listed in Table 2
PM	0.01 gr/dscf	IDNR construction permits listed in Table 2 567 IAC 23.4(13)
VOC	60.0 ton/yr	IDNR construction permits listed in Table 2

**Operational Limits & Requirements**

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

**Operating Limits**

- A. The horizontal line paint spray booth is limited to using a maximum of 4 spray guns simultaneously within this booth.
- B. The maximum VOC content of any coating or solvent used shall not exceed 7.0 pounds per gallon.
- C. Each by-pass stack (EP-37, EP-38 & EP-48) shall be equipped with a device to determine the number of hours the by-pass stack is open to the atmosphere.

**Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. The facility shall keep records of the amount of material consumed by quantifying the amount of gallons used in emission units (EU-35, EU-37, EU-38, EU-48, EU-68A, EU-68B & EU-110) on a daily basis.
- B. Record VOCs and solids content in pounds per gallon for each painting material used in the booth.
- C. The facility shall keep records on a rolling 12-month basis in the amount of VOCs emitted by the emission units (EU-35, EU-37, EU-38, EU-68A, EU-68B & EU-110) in tons per year.
- D. The MSDS of each material used at the facility shall be kept on-site and available for inspection by the IDNR.

Authority for Requirement: Iowa DNR Construction Permits listed in Table 2

**NSPS and NESHAP Applicability**

These units are subject to NESHAP Subpart A – General Provisions and Subpart M – National Emission Standards for Hazardous Air Pollutants: Surface Coating of Miscellaneous Metal Parts and Products.

Authority for Requirement: Iowa DNR Construction Permits listed in Table 2

**Emission Point Characteristics**

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

**Table Horizontal Line Paint Booths-5**

	Stack Height (ft, from the ground)	Stack Opening (dia. inch)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement IDNR Construction Permit
EP-35	36	18	3,900	70	Vertical Unobstructed	92-A-606-S11
EP-37	36	18	3,900	70	Vertical Unobstructed	92-A-644-S11
EP-38	36	18	3,900	70	Vertical Unobstructed	92-A-608-S11
EP-68A	54	30	7,357	70	Vertical Unobstructed	92-A-645-S11
EP-68B	42	30	6,630	70	Vertical Unobstructed	02-A-910-S6
EP-110	37	18	2,000	70	Vertical Unobstructed	02-A-911-S5

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

**Monitoring Requirements**

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

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

Authority for Requirement: 567 IAC 22.108(3)

**Paint Booth Agency Operation & Maintenance Plan**

**Weekly**

- Inspect the paint booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

**Record Keeping and Reporting**

Maintenance and inspection records will be kept for five years and available upon request.

**Quality Control**

- The filter equipment will be operated and maintained according to the manufacturers recommendations.

## Emission Point ID Number: Horizontal Line Drying Oven

### Associated Equipment

Associated Emission Unit ID Numbers: EP-47, EP-48

Emissions Control Equipment ID Number: None

Emissions Control Equipment Description: NA

Continuous Emissions Monitors ID Numbers: None

**Table Horizontal Line Drying Oven-1**

EP	EU	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EP-47	EU-47	Horizontal Line Drying Oven	Natural Gas	4.73MMBtu/hr	92-A-592-S5
EP-48	EU-48	Horizontal Line Drying Oven	Natural Gas	4.73MMBtu/hr	92-A-593-S5

### Applicable Requirements

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

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

**Table Horizontal Line Drying Oven-2**

EP	EU	Opacity	PM10	PM	VOC	SO <sub>2</sub>
EP-47	EU-47	40% <sup>(1)</sup>	0.04 lb/hr	0.1 gr/dscf	0.9 ton/yr <sup>(2)</sup>	500 ppmv
EP-48	EU-48	40% <sup>(1)</sup>	0.04 lb/hr	0.1 gr/dscf	0.9 ton/yr <sup>(2)</sup> 60.0 ton/yr <sup>(3)</sup>	500 ppmv

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

<sup>(2)</sup>This is a bubble limit set on EU-40, EU-41, EU-42, EU-46, EU-47 and EU-48. The limit was established through a netting process from 1987, revised in 1992 and February 2000 (Note: The VOC PTE is 0.90 tpy for the oven).

<sup>(3)</sup>The total VOC PTE shall not exceed 60 tons per twelve-month rolling period for the following emission points: EP-35, EP-37, EP-38, EP-48, EP-68A, 68B, 110 & CO<sub>2</sub>.

**Table Horizontal Line Drying Oven -3**

Pollutant	Emission Limits	Authority of Requirement
Opacity	40%	IDNR construction permits listed in Table 1 567 IAC 23.3(2) "d"
PM10	0.04 lb/hr	IDNR construction permits listed in Table 1
PM	0.1 gr/dscf	IDNR construction permits listed in Table 1 567 IAC 23.3(2) "a"
SO <sub>2</sub>	500 ppmv	567 IAC 23.3(3) "e"

### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. This source shall use only natural gas as the fuel source (EP-47).

Authority for Requirement: Iowa DNR Construction Permit 92-A-592-S5

- B. Each by-pass stack (EP-37, EP-38 & EP-48) shall be equipped with a device to determine the number of hours the by-pass stack is open to the atmosphere.

Authority for Requirement: Iowa DNR Construction Permit 92-A-593-S5

#### **Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. The facility shall keep records of the type of fuel used in the source (EP-47).

Authority for Requirement: Iowa DNR Construction Permit 92-A-592-S5

- B. The facility shall keep records of the amount of material consumed by quantifying the amount of gallons used in emission units (EU-35, EU-37, EU-38, EU-48, EU-68A, EU-68B & EU-110) on a daily basis.
- C. Record VOCs and solids content in pounds per gallon for each painting material used in the booth.
- D. The facility shall keep records on a rolling 12-month basis in the amount of VOCs emitted by the emission units (EU-35, EU-37, EU-38, EU-48, EU-68A, EU-68B & EU-110) in tons per year.
- E. The MSDS of each material used at the facility shall be kept on-site and available for inspection by the IDNR.

Authority for Requirement: Iowa DNR Construction Permit 92-A-593-S5

#### **NSPS and NESHAP Applicability**

These units are subject to NESHAP Subpart A – General Provisions and Subpart M – National Emission Standards for Hazardous Air Pollutants: Surface Coating of Miscellaneous Metal Parts and Products.

Authority for Requirement: Iowa DNR Construction Permits listed in Table 1.

**Emission Point Characteristics**

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

**Table Horizontal Line Drying Oven-3**

	Stack Height (ft, from the ground)	Stack Opening (dia. inch)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement IDNR Construction Permit
EP-47	37	18.5	2000	450	Vertical Obstructed	92-A-592-S5
EP-48	46	18.5	2000	450	Vertical Obstructed	92-A-593-S5

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP-CO2**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-CO2  
Emissions Control Equipment ID Number: CE-CO2  
Emissions Control Equipment Description: Catalytic Oxidizer  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-CO2  
Emission Unit Description: Catalytic Oxidizer for Paint Lines  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 5.5 MMBtu/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: Iowa DNR Construction Permit 07-A-454  
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 07-A-454  
567 IAC 23.4(13)

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

Emission Limit(s): 500 ppmv

Authority for Requirement: Iowa DNR Construction Permit 07-A-454  
567 IAC 23.3(3)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 60.0 ton/yr <sup>(2)</sup>

Authority for Requirement: Iowa DNR Construction Permit 07-A-454

<sup>(2)</sup>The total VOC PTE shall not exceed 60 tons per twelve-month rolling period for the following emission points: EP-35, EP-37, EP-38, EP-48, EP-68A, EP-68B, EP-110 & EP-CO2.

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

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

##### **Operating Limits**

- A. The maximum VOC content of any coating or solvent used shall not exceed 7.0 pounds per gallon.

- B. Each by-pass stack (EP-37, EP-38 & EP-48) shall be equipped with a device to determine the number of hours the by-pass stack is open to the atmosphere.

**Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. Record the VOC and total HAP content of any coating or solvent used in pounds per gallon.
- B. Record the amount of preservative coating or solvent used in gallons on a daily basis.
- C. For each by-pass stack (EP-37, EP-38 & EP-48) record the number of hours they are open on a daily basis.
- D. Calculate and record the total VOC amount in tons per month that are emitted by the by-pass stack, EP-CO2.
- E. Calculate and record on a rolling 12-month basis the total emissions from EP-35, EP-37, EP-38, EP-48, EP-68A, EP-68B, EP-110 & EP-CO2 to ensure the total emissions are below the 60.0 tpy limit.
- F. The permit holder, owner or operator of the facility shall maintain manufacturer/vendor provided information (i.e., Material Safety Data Sheets (MSDS), technical data sheets, etc.) of all materials used in the emission unit, which clearly indicates the VOC and HAP content of that material.

Authority for Requirement: Iowa DNR Construction Permit 07-A-454

**NSPS and NESHAP Applicability**

This emission unit is subject to NESHAP Subpart A – General Provisions and Subpart M – National Emission Standard for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products.

Authority for Requirement: Iowa DNR Construction Permit 07-A-454

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 40

Stack Opening, (inches, dia.): 34

Exhaust Flow Rate (scfm): 8,394

Exhaust Temperature (°F): 550

Discharge Style: Vertical without rain cap or with unobstructing rain cap

Authority for Requirement: Iowa DNR Construction Permit 07-A-454

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

**Monitoring Requirements**

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: Manual Surface Coating Booths

**Table Surface Coating Booths-1**

EP	EU	Emission Unit Description	Raw Material	Rated Capacity, gal/hr
EP-147	EU-147	Manual Surface Coating Booth	Paint, Stain, Vanish	6.5
EP-203	EU-203	Manual Surface Coating Booth	Paint, Stain, Vanish	6.5
EP-228	EU-228	Manual Surface Coating Booth	Paint, Stain, Vanish	6.5

**Table Surface Coating Booths -2**

EP	EU	Emission Unit Description	CE & Description	CEM	IDNR Construction Permit
EP-147	EU-147	Manual Surface Coating Booth	CE-147/Dry Filter	None	09-A-569-S3
EP-203	EU-203	Manual Surface Coating Booth	CE-203/Dry Filter	None	09-A-614-S3
EP-228	EU-228	Manual Surface Coating Booth	CE-228/Dry Filter	None	11-A-206-S1

### Applicable Requirements

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

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

**Table Surface Coating Booths -3**

EP	EU	Opacity	PM10	PM	PM
EP-147	EU-147	40% <sup>(1)</sup>	0.07 lb/hr	0.07 lb/hr	0.01 gr/dscf
EP-203	EU-203	40% <sup>(1)</sup>	0.07 lb/hr	0.07 lb/hr	0.01 gr/dscf
EP-228	EU-228	40% <sup>(1)</sup>	0.07 lb/hr	0.07 lb/hr	0.01 gr/dscf

<sup>(1)</sup>If visible emissions are observed other than start-up, shut-down, or malfunction, a stack test maybe required to demonstrate compliance with the particulate standard.

<sup>(2)</sup>An exceedance of the indicator opacity of "10%" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

**Table Surface Coating Booths -4**

Pollutant	Emission Limits	Authority of Requirement
Opacity	40%	Iowa DNR Construction Permit listed in Table 2 567 IAC 23.3(2) "d"
PM10	0.07 lb/hr	Iowa DNR Construction Permit listed in Table 2
PM	0.07 lb/hr	Iowa DNR Construction Permit listed in Table 2
PM	0.01 gr/dscf	Iowa DNR Construction Permit listed in Table 2 567 IAC 23.4(13)

## **Operational Limits & Requirements**

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

### **Operating Limits**

- A. The VOC content of any coating material (e.g. primer, stain, clearcoat, topcoat, thickener) used in all surface coating operation associated with the pre-finished product line shall not exceed 1.70 pounds per gallon as applied.
- B. The amount of any coating material (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content less than or equal to 0.33 pounds per gallon used in the pre-finished product line shall not exceed 40,000 gallons per twelve (12) month rolling period, rolled monthly.
- C. The amount of any coating material (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content greater than 0.33 pounds per gallon and less than or equal to 0.56 pounds per gallon used in the pre-finished product line shall not exceed 17,000 gallons per twelve (12) month rolling period, rolled monthly.
- D. The amount of any coating material (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content greater than 0.56 pounds per gallon and less than or equal to 0.93 pounds per gallon used in the pre-finished product line shall not exceed 25,000 gallons per twelve (12) month rolling period, rolled monthly.
- E. The amount of any coating material (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content greater than 0.93 pounds per gallon and less than or equal to 1.15 pounds per gallon used in the pre-finished product line shall not exceed 28,000 gallons per twelve (12) month rolling period, rolled monthly.
- F. The amount of any coating material (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content greater than 1.15 pounds per gallon and less than or equal to 1.70 pounds per gallon used in the pre-finished product line shall not exceed 15 gallons per twelve (12) month rolling period, rolled monthly.
- G. The filters used in this emissions unit shall be operated and maintained in accordance with the recommendations of the manufacturer.
- H. The permittee shall maintain the MSDS of materials used in the paint booth on site.

Authority for Requirement: Iowa DNR Construction Permit listed in Table 2.

### **Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. The permittee shall maintain records on the identification and the VOC content of each material used in this emissions unit.
- B. At the end of each month, record the number of gallons of coating materials (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content of less than or equal to 0.33 pounds per gallon that were used in the pre-finished product line over the previous month. Calculate and record the rolling 12-month total.
- C. At the end of each month, record the number of gallons of coating materials (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content of greater than 0.33 pounds per gallon and less than or equal to 0.56 pounds per gallon that were used in the pre-finished product line over the previous month. Calculate and record the rolling 12-month total.

- D. At the end of each month, record the number of gallons of coating materials (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content of greater than 0.56 pounds per gallon and less than or equal to 0.93 pounds per gallon that were used in the pre-finished product line over the previous month. Calculate and record the rolling 12-month total.
- E. At the end of each month, record the number of gallons of coating materials (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content of greater than 0.93 pounds per gallon and less than or equal to 1.15 pounds per gallon that were used in the pre-finished product line over the previous month. Calculate and record the rolling 12-month total.
- F. At the end of each month, record the number of gallons of coating materials (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content of greater than 1.15 pounds per gallon and less than or equal to 1.70 pounds per gallon that were used in the pre-finished product line over the previous month. Calculate and record the rolling 12-month total.
- G. The permittee shall submit notifications as required by §63.4710; the permittee shall submit required reports in accordance with §63.4720.
- H. The permittee shall maintain the necessary records in accordance with §63.4730 and §63.4731.
- I. If using the Compliant Material Option to comply with the HAP limit, the permittee shall follow the requirements of §63.4740, §63.4741, and §63.4742.
- J. If using the Emission Rate without Add-on Control Option to comply with the HAP limit, the permittee shall follow the requirements of §63.4750, §63.4751, and §63.4752.
- K. The permittee shall maintain records on the types of dry filters used in this emissions unit.

Authority for Requirement: Iowa DNR Construction Permit listed in Table 2.

**NSPS and NESHAP Applicability**

These units are subject to NESHAP Subpart A – General Provisions and Subpart QQQQ – National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products.

Authority for Requirement: Iowa DNR Construction Permits listed in Table 2.

**Emission Point Characteristics**

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

**Table Surface Coating Booths -5**

	Stack Height (ft, from the ground)	Stack Opening (dia. inch)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement IDNR Construction Permit
EP-147	32	35	7000-12000	Ambient	Vertical Unobstructed	09-A-569-S3
EP-203	40	36	7000-12000	70	Vertical Unobstructed	09-A-614-S3
EP-228	37	36	7000-12000	70	Vertical Unobstructed	11-A-206-S1

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

**Monitoring Requirements**

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

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

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

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

**Paint Booth Agency Operation & Maintenance Plan**

**Weekly**

- Inspect the paint booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

**Record Keeping and Reporting**

Maintenance and inspection records will be kept for five years and available upon request.

**Quality Control**

- The filter equipment will be operated and maintained according to the manufacturers recommendations.

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: Paint Line Cure Ovens

### Associated Equipment

Associated Emission Unit ID Numbers: EP-108A, EP-108B, EP-108C

Emissions Control Equipment ID Number: None

Emissions Control Equipment Description: NA

Continuous Emissions Monitors ID Numbers: None

**Table Paint Line Cure Ovens-1**

EP	EU	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EP-108A	EU-108A	Paint Line Cure Oven	Natural Gas	1.41 MMBtu/hr	02-A-086-S1
EP-108B	EU-108B	Paint Line Cure Oven	Natural Gas	1.41 MMBtu/hr	02-A-087-S1
EP-108C	EU-108C	Paint Line Cure Oven	Natural Gas	1.41 MMBtu/hr	02-A-088-S1

### **Applicable Requirements**

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

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

**Table Paint Line Cure Ovens -2**

EP	EU	VOC	Single HAP	Authority for Requirement
EP-108A	EU-108A	13.5 ton/yr	8.4 ton/yr	Iowa DNR Construction Permit 02-A-086-S1
EP-108B	EU-108B	13.5 ton/yr	8.4 ton/yr	Iowa DNR Construction Permit 02-A-087-S1
EP-108C	EU-108C	13.5 ton/yr	8.4 ton/yr	Iowa DNR Construction Permit 02-A-088-S1

### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. For recordkeeping purposes, all VOCs from these units will be accounted for at the associated paint booth (EP-107).

Authority for Requirement: Iowa DNR Construction Permits listed in Table 1.

#### **NSPS and NESHAP Applicability**

These units are subject to NESHAP Subpart A – General Provisions and Subpart QQQQ – National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products.

Authority for Requirement: Iowa DNR Construction Permits listed in Table 1

These units are subject to National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters [40 CFR Part 63 Subpart DDDDD].

Authority for Requirement: Iowa DNR Construction Permits listed in Table 1.

**Emission Point Characteristics**

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

**Table Paint Line Cure Ovens-3**

	Stack Height (ft, from the ground)	Stack Opening (dia. inch)	Exhaust Flow Rate (acfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement IDNR Construction Permit
EP-108A	39	18×36	5500	90	Vertical Unobstructed	02-A-086-S1
EP-108B	39	18×22	2800	120	Vertical Unobstructed	02-A-087-S1
EP-108C	39	18×27	3700	90	Vertical Unobstructed	02-A-088-S1

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP-3**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-3  
Emissions Control Equipment ID Number: CE-3  
Emissions Control Equipment Description: Dry Filter  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-3  
Emission Unit Description: Paint/Lacquer Spray Booth  
Raw Material/Fuel: Paint, Vanish  
Rated Capacity: 5.2 gal/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: Iowa DNR Construction Permit 05-A-648-S1  
567 IAC 23.3.(2) "d"

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

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

Emission Limit(s): 2.14 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 05-A-648-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 05-A-648-S1  
567 IAC 23.4(13)

Pollutant: Total HAPs

Emission Limit(s): 231 g HAP/L Solids <sup>(2)</sup>

Authority for Requirement: Iowa DNR Construction Permit 05-A-648-S1  
40 CFR Part 63 Subpart QQQQ  
567 IAC 23.1(4) "cq"

<sup>(2)</sup>231 grams of HAPs/liter of solids = 1.93 lb of HAPs/gal of solids.

### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. The maximum VOC content of any material (i.e. paint, solvent, lacquer, etc.) used shall not exceed 8.0 pounds per gallon.
- B. This unit shall not use more than 2,220 gallons of materials (i.e. paint, solvent, lacquer, etc.) per rolling twelve (12) month period.

#### **Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. A record of all materials used and their respective VOC contents.
- B. For the first twelve (12) months of operation, determine the total amount of material (i.e. paint, solvent, lacquer, etc.) used (in gallons/month) in this emission unit for each month of operation.
- C. After the first twelve (12) months of operation, determine the cumulative amount of material (i.e. paint, solvent, lacquer, etc.) used (in gallons/year) in this emission unit on a rolling-12-month basis for each month of operation.
- D. Monitoring for NESHAP Subpart QQQQ at the facility shall be done per the subpart.
- E. Recordkeeping for NESHAP Subpart QQQQ at the facility shall be done per the subpart.

Authority for Requirement: Iowa DNR Construction Permit 05-A-648-S1

#### **NSPS and NESHAP Applicability**

This emission unit is subject to NESHAP Subpart A – General Provisions and Subpart QQQQ – National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products.

Authority for Requirement: Iowa DNR Construction Permit 05-A-648-S1

#### **Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 36  
Stack Opening, (inches, dia.): 42  
Exhaust Flow Rate (scfm): 18,000-22,000  
Exhaust Temperature (°F): Ambient  
Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 05-A-648-S1

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

**Monitoring Requirements**

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

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

**Paint Booth Agency Operation & Maintenance Plan**

**Weekly**

- Inspect the paint booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

**Record Keeping and Reporting**

Maintenance and inspection records will be kept for five years and available upon request.

**Quality Control**

- The filter equipment will be operated and maintained according to the manufacturer's recommendations.

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP-8**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-8  
Emissions Control Equipment ID Number: VE-8  
Emissions Control Equipment Description: Dry Filter  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-8  
Emission Unit Description: Paint Spray Booth  
Raw Material/Fuel: Paint  
Rated Capacity: 6.7 gal/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: Iowa DNR Construction Permit 00-A-181-S6  
567 IAC 23.3(2) "d"

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

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

Emission Limit(s): 0.53 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 00-A-181-S6

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 00-A-181-S6  
567 IAC 23.4(13)

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

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

#### **Operating Limits**

- A. Only one paint spray gun with a maximum spray capacity equal to or less than 6.7 gal/hr shall be operated in this booth at one time.
- B. The maximum solids content of any painting materials used in this booth is limited to no more than 11.0 lb/gal.
- C. The maximum VOC content of any painting materials used in this booth is limited to no more than 6.5 lbs VOC/gal as applied.
- D. For frames that are coated only within this booth, painting materials are limited to no more than 3,500 gallons per twelve month rolling period. Painting materials are defined

as paints, solvents, lacquers, and any other liquids used for surface coating products at the facility.

- E. For partial frame components which were damaged in manufacturing that are painted within this booth, but where the rest of the frame was painted at a different booth or line, any VOC emissions due to painting that component shall be accounted for under the emission conditions and limits of the applicable different booth or line.

### **Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. Record VOCs and solids content in lbs/gal for each painting material used in the booth.
- B. Record monthly usage in gallons/month for each painting material used in the booth for each category. For example, frames painted solely in EP-8, vertical line components, and horizontal line components.
- C. During the first eleven months of operation, determine cumulative painting material usage each month of operation for frames painted solely in EP-8.
- D. After the first eleven months of operation, determine the amount of painting material used in a twelve month period for frames painted solely in EP-8, rolled monthly.
- E. If components from a different line or booth are painted in EP-8 that month, include the VOC emissions due to each category from EP-8 when calculating compliance for the different line or booth.
- F. Record maintenance and replacement of filters.

Authority for Requirement: Iowa DNR Construction Permit 00-A-181-S6

### **NSPS and NESHAP Applicability**

This emission unit is subject to NESHAP Subpart A – General Provisions and Subpart M – National Emission Standards for Hazardous Air Pollutants: Surface Coating of Miscellaneous Metal Parts and Product.

Authority for Requirement: Iowa DNR Construction Permit 00-A-181-S6

### **Emission Point Characteristics**

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

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

Stack Opening, (inches, dia.): 38

Exhaust Flow Rate (scfm): 24,500

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 00-A-181-S6

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

**Monitoring Requirements**

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

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

**Paint Booth Agency Operation & Maintenance Plan**

**Weekly**

- Inspect the paint booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

**Record Keeping and Reporting**

Maintenance and inspection records will be kept for five years and available upon request.

**Quality Control**

- The filter equipment will be operated and maintained according to the manufacturers recommendations.

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: Paint Booths

**Table Paint Booths-1**

EP	EU	Emission Unit Description	Raw Material	Rated Capacity, gal/hr
EP-29	EU-29	Paint Spray Booth - Hardware Booth	Paint	7.50
EP-31	EU-31	Vertical Line Paint Booth Stack	Paint	2.40
EP-32	EU-32	Vertical Line Paint Booth Stack	Paint	2.40
EP-33	EU-33	Vertical Line Paint Booth Stack	Paint	5.30
EP-34	EU-34	Vertical Line Paint Booth Stack	Paint	5.30

**Table Paint Booths-2**

EP	EU	Emission Unit Description	CE	CEM	IDNR Construction Permit
EP-29	EU-29	Paint Spray Booth - Hardware Booth	CE-29/Dry Filter	None	92-A-596-S8
EP-31	EU-31	Vertical Line Paint Booth Stack	CE-31/Dry Filter	None	92-A-602-S7
EP-32	EU-32	Vertical Line Paint Booth Stack	CE-32/Dry Filter	None	92-A-603-S7
EP-33	EU-33	Vertical Line Paint Booth Stack	CE-33/Dry Filter	None	92-A-604-S8
EP-34	EU-34	Vertical Line Paint Booth Stack	CE-34/Dry Filter	None	92-A-605-S8

### Applicable Requirements

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

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

**Table Paint Booths-3**

EP	EU	Opacity	PM10	PM	PM	VOC	Total HAPs
EP-29	EU-29	40% <sup>(1)</sup>	0.35 lb/hr	0.35 lb/hr	0.01gr/dscf	164.0 ton/yr <sup>(2)</sup>	2.6 lb/gal of solid or 27.5 lb/gal of solid <sup>(3)</sup>
EP-31	EU-31	40% <sup>(1)</sup>	0.27 lb/hr	0.27 lb/hr	0.01 gr/dscf	164.0 ton/yr <sup>(2)</sup>	2.6 lb/gal of solid or 27.5 lb/gal of solid <sup>(3)</sup>
EP-32	EU-32	40% <sup>(1)</sup>	0.27 lb/hr	0.27 lb/hr	0.01 gr/dscf	164.0 ton/yr <sup>(2)</sup>	2.6 lb/gal of solid or 27.5 lb/gal of solid <sup>(3)</sup>
EP-33	EU-33	40% <sup>(1)</sup>	0.27 lb/hr	0.27 lb/hr	0.01 gr/dscf	164.0 ton/yr <sup>(2)</sup>	2.6 lb/gal of solid or 27.5 lb/gal of solid <sup>(3)</sup>
EP-34	EU-34	40% <sup>(1)</sup>	0.27 lb/hr	0.27 lb/hr	0.01 gr/dscf	164.0 ton/yr <sup>(2)</sup>	2.6 lb/gal of solid or 27.5 lb/gal of solid <sup>(3)</sup>

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

<sup>(2)</sup>Bubble limit to be a synthetic minor for PSD. This is a bubble limit set on EU-29, EU-31, EU-32, EU-33 and EU-34. The limit was set through a netting process from 1987, revised in 1992, February 2000, and December 2002. The revision in December 2002 was eliminating EU-35 and EU-38 from the bubble limit due to the reconstruction and relocation of the entire booth. EU-35 and EU-38 were determined to be with other emission units (EU-37, EU-68 and EU-110) under one project (02-610) and limited to 39.4 tpy. This limit does not apply to any other unit at this facility and cannot be relieved without PSD review. It does not include VOC emission from the combustion of natural gas in the bake ovens or dry-off oven.

<sup>(3)</sup> IDNR reference to NESHAP Subpart M MMM – Surface Coating of Miscellaneous Metal Parts & Products (40 CFR §63.3880). For an existing general use coating, organic HAP emissions are limited to no more than 2.6 lb organic HAP per gallon of coating solids used during each 12-month compliance period. For an existing high performance coating, organic HAP emissions are limited to no more than 27.5 lb organic HAP per gallon of coating solids used during each 12-month compliance period.

**Table Paint Booths -4**

<b>Pollutant</b>	<b>Emission Limits</b>	<b>Authority of Requirement</b>
Opacity	40%	IDNR construction permits listed in Table 2 567 IAC 23.3(2) "d"
PM10	0.35 lb/hr or 0.27 lb/hr	IDNR construction permits listed in Table 2
PM	0.35 lb/hr or 0.27 lb/hr	IDNR construction permits listed in Table 2
PM	0.01 gr/dscf	IDNR construction permits listed in Table 2 567 IAC 23.4(13)
VOC	164.0 ton/yr	IDNR construction permits listed in Table 2
Total HAPs	2.6 lb/gal of solid or 27.5 lb/gal of solid	IDNR construction permits listed in Table 2 40 CFR Part 63 Subpart MMM 567 IAC 23.1(4) "cm"

**Operational Limits & Requirements**

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

**Operating Limits**

- A. The owner or operator shall limit organic HAP emission to the atmosphere as per the emission requirements of 40 CFR §63.3890.
- B. The owner or operator shall comply with the work practice standards outlined in 40 CFR §63.3893.
- C. The owner or operator shall comply with the compliance procedures and monitoring requirements of 10 CFR §63.3900.
- D. For purposes of construction permit Project 08-017 staying a synthetic minor project for Prevention of Significant Deterioration (PSD), the owner or operator shall have the following limits for a period five (5) years from February 28, 2008:
  - D1. The project includes a change in the method of operation to the following emission units: Paint Booth (Hardware Booth) (EU-29), Paint Booth Vertical Line (EU-31), Paint Booth Vertical Line (EU-32), Paint Booth Vertical Line (EU-33) and Paint Booth Vertical Line (EU-34).
  - D2. The baseline actual emissions for the project are equal to 72.54 tons per year for VOC. The baseline actual emissions shall remain unchanged throughout the five (5) year period.
  - D3. The owner or operator shall determine the actual emissions for the project by summing the emissions from the following emission units each month: Paint Booth (Hardware Booth) (EU-29), Paint Booth Vertical Line (EU-31), Paint Booth Vertical Line (EU-32), Paint Booth Vertical Line (EU-33) and Paint Booth Vertical Line (EU-34).
  - D4. Actual emissions minus the baseline actual emissions from the project shall not exceed the PSD significant levels: 39.4 tons per 12-month rolling period of VOC. If the emission increases from the project starting on February 28, 2008 do not

exceed the PSD significance levels, these limits shall no longer apply after February 28, 2013. If these limits are exceeded prior to March 1, 2013, the owner or operator shall submit a report pursuant to 567 IAC 33.3(18) "f"(7).

### **Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. The facility shall maintain a log of all materials used in the following units: Paint Booth (Hardware Booth) (EU-29), Paint Booth Vertical Line (EU-31), Paint Booth Vertical Line (EU-32), Paint Booth Vertical Line (EU-33) and Paint Booth Vertical Line (EU-34). Note: These emission units will hereafter be referred to as the "affected units". The log shall contain the material respective VOC, Single HAP and Total HAP content, (in applicable units).
- B. The facility shall record the daily material usage, in gallons per day, for each VOC-containing material used in the "affected units".
- C. Calculate and record the VOC emission in tons from the "affected units" on a monthly basis and keep a 12-month rolling total. Records for VOC emissions shall be kept on a monthly basis until the VOC emission exceed 135 tons per 12-month rolling period. At this point the owner or operator shall immediately begin keeping a 365-day rolling total amount of VOC emitted. Calculation requirements may revert back to a monthly basis if the 12-month rolling total of VOC emission is returned to below 135 tons.
- D. The owner or operator may take credit for any waste VOC, Single HAP or Total HAP shipped off-site. The owner or operator shall record the amount of waste shipped off-site, and also analyze the VOC content, Single HAP content and Total HAP content of the waste once every calendar year quarter. The sample analyzed shall be taken as a representative sample (as defined in 40 CFR §260.10) of the waste sent off-site for that quarter and shall be taken as representative until the subsequent quarter's analysis is received. The credit (calculated from the most current analysis and the amount shipped off-site) may be subtracted from the VOC, Single HAP and Total HAP rolling totals, respectively, as of the date the waste is shipped off-site.
- E. Retain Material Safety Data Sheets (MSDS) for all reagents, surface coating materials, solvents and other HAP and VOC-containing materials used at the facility.
- F. For purposes of construction permit Project 08-017 staying a synthetic minor project for Prevention of Significant Deterioration (PSD), the owner or operator shall have the following monitoring conditions for a period five (5) years from February 28, 2008:
  - F1. Record each month the sum of the actual VOC emissions from the following emission units: Paint Booth (Hardware Booth) (EU-29), Paint Booth Vertical Line (EU-31), Paint Booth Vertical Line (EU-32), Paint Booth Vertical Line (EU-33) and Paint Booth Vertical Line (EU-34). Calculate and record 12-month rolling totals.
  - F2. Record each month the 12-month rolling value of the actual emissions minus the baseline actual emissions.
  - F3. The facility is allowed to exclude those emissions following the project that could have been accommodated during the consecutive 24-month period used to establish BAE, and are unrelated to this project (i.e., increased utilization due to demand growth). The facility shall be required to include a justification for any

emissions excluded due to demand growth.

F4. The owner or operator shall submit to the department the 12-month rolling value of the actual emissions minus the baseline actual emissions each calendar year.

This information must be postmarked by March 31 for each calendar year submittal (i.e., the initial report shall be postmarked by March 31, 2009).

Authority for Requirement: Iowa DNR Construction Permits listed in Table 2

**NSPS and NESHAP Applicability**

These emission units are subject to NESHAP Subpart A – General Provisions and Subpart MMMM – National Emission Standard for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products.

Authority for Requirement: Iowa DNR Construction Permits listed in Table 2

**Emission Point Characteristics**

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

**Table Paint Booths-5**

	Stack Height (ft, from the ground)	Stack Opening (dia. inch)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement IDNR Construction Permit
EP-29	53	36	14,000	70	Vertical Unobstructed	92-A-596-S8
EP-31	51	34	14,000	70	Vertical Unobstructed	92-A-602-S7
EP-32	51	34	14,000	70	Vertical Unobstructed	92-A-603-S7
EP-33	51	34	14,000	70	Vertical Unobstructed	92-A-604-S8
EP-34	51	34	14,000	70	Vertical Unobstructed	92-A-605-S8

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP-52**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-52  
Emissions Control Equipment ID Number: CE-52  
Emissions Control Equipment Description: Dry Filter  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-52  
Emission Unit Description: Paint Spray Booth - Maintenance Paint Booth  
Raw Material/Fuel: Paint  
Rated Capacity: 6.7 gal/hr

### Applicable Requirements

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

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

Pollutant: Opacity  
Emission Limit(s): 40% <sup>(1)</sup>  
Authority for Requirement: Iowa DNR Construction Permit 04-A-437-S3  
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM<sub>10</sub>)  
Emission Limit(s): 1.71 lb/hr  
Authority for Requirement: Iowa DNR Construction Permit 04-A-437-S3

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.01 gr/dscf  
Authority for Requirement: Iowa DNR Construction Permit 04-A-437-S3  
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)  
Emission Limit(s): 8.9 ton/yr  
Authority for Requirement: Iowa DNR Construction Permit 04-A-437-S3

### Operational Limits & Requirements

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

#### **Operating Limits**

- A. Material usage at this booth shall be limited to a maximum of 2,220 gallons per twelve month rolling period.
- B. Material used at this booth shall be limited to a maximum VOC content of 8.0 lb VOC/gallon as applied.

- C. This booth shall be limited to using only one spray gun at any one time.
- D. This booth shall be limited to using a spray gun with a maximum capacity of 6.7 gal/hr.

**Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. The owner or operator shall record the amount of material used in this booth, and update the twelve month rolling total on a monthly basis.
- B. The owner or operator shall keep Material Safety Data Sheets (MSDS) of all materials used in this booth, which demonstrate the VOC content.
- C. The owner or operator shall keep the manufacturer's specifications on each spray gun used in this booth, which demonstrates the maximum spray capacity.

Authority for Requirement: Iowa DNR Construction Permit 04-A-437-S3

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 34

Stack Opening, (inches, dia.): 42

Exhaust Flow Rate (scfm): 20,000

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 04-A-437-S3

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

**Monitoring Requirements**

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

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

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

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

**Agency Paint Booth Operation and Maintenance Plan**

**Weekly**

- Inspect the paint booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

**Record Keeping and Reporting**

- Maintenance and inspection records will be kept for five years and available upon request.

**Quality Control**

- The filter equipment will be operated and maintained according to the manufacturer's recommendations.

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: Pretreatment System

**Table Pretreatment System-1**

EP	EU	Emission Unit Description	Raw Material	Rated Capacity, gal/hr
EP-74A	EU-74A	Pretreatment System	Detergents, Sealers	1326.00
EP-74B	EU-74B	Pretreatment System	Detergents, Sealers	1326.00
EP-103	EU-103	Pretreatment System	Detergents, Sealers	696.00
EP-104	EU-104	Pretreatment System	Detergents, Sealers	696.00

**Table Pretreatment System-2**

EP	EU	Emission Unit Description	CE	CEM	IDNR Construction Permit
EP-74A	EU-74A	Pretreatment System	None	None	04-A-1012-S1
EP-74B	EU-74B	Pretreatment System	None	None	04-A-1013-S1
EP-103	EU-103	Pretreatment System	None	None	01-A-1341-S1
EP-104	EU-104	Pretreatment System	None	None	01-A-1342-S2

### Applicable Requirements

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

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

**Table Pretreatment System-3**

EP	EU	Opacity	PM10	PM	PM	Chromium
EP-74A	EU-74A	40% <sup>(1)</sup>	0.15 lb/hr	0.1 gr/dscf	--	--
EP-74B	EU-74B	40% <sup>(1)</sup>	0.15 lb/hr	0.1 gr/dscf	--	--
EP-103	EU-103	40% <sup>(1)</sup>	0.15 lb/hr	0.1 gr/dscf	1.39 lb/hr	0.54 lb/hr
EP-104	EU-104	40% <sup>(1)</sup>	0.15 lb/hr	0.1 gr/dscf	1.39 lb/hr	0.54 lb/hr

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

#### Operational Limits & Requirements

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

Operational limits are not required at this time for these units.

**Emission Point Characteristics**

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

	Stack Height (ft, from the ground)	Stack Opening (dia. inch)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement IDNR Construction Permit
EP-74A	54	24	3,150	120	Vertical Obstructed	04-A-1012-S1
EP-74B	52.5	21	3,150	120	Vertical Obstructed	04-A-1013-S1
EP-103	40	16	4,100	120-150	Vertical Unobstructed	01-A-1341-S1
EP-104	36	16	1,700	120-150	Vertical Unobstructed	01-A-1342-S2

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: Sanding Stations

### Table Sanding Stations-1

EP	EU	Emission Unit Description	Raw Material	Rated Capacity,
EP-211	EU-211	Sanding Station	Dust Collection Air Stream	NA*
EP-212	EU-212	Sanding Station	Dust Collection Air Stream	NA*
EP-213	EU-213	Sanding Station	Dust Collection Air Stream	NA*
EP-214	EU-214	Sanding Station	Dust Collection Air Stream	NA*
EP-215	EU-215	Sanding Station	Dust Collection Air Stream	NA*
EP-216	EU-216	Sanding Station	Dust Collection Air Stream	NA*
EP-217	EU-217	Sanding Station	Dust Collection Air Stream	NA*
EP-218	EU-218	Sanding Station	Dust Collection Air Stream	NA*
EP-219	EU-219	Sanding Station	Dust Collection Air Stream	NA*
EP-220	EU-220	Sanding Station	Dust Collection Air Stream	NA*

\*: These units are hand sanding stations. Capacities depend on the operator.

### Table Sanding Stations-2

EP	EU	Emission Unit Description	CE	CEM	IDNR Construction Permit
EP-211	EU-211	Sanding Station	CE-211/Dust Collector	None	09-A-622
EP-212	EU-212	Sanding Station	CE-212/Dust Collector	None	09-A-635
EP-213	EU-213	Sanding Station	CE-213/Dust Collector	None	09-A-636
EP-214	EU-214	Sanding Station	CE-214/Dust Collector	None	09-A-637
EP-215	EU-215	Sanding Station	CE-215/Dust Collector	None	09-A-638
EP-216	EU-216	Sanding Station	CE-216/Dust Collector	None	09-A-639
EP-217	EU-217	Sanding Station	CE-217/Dust Collector	None	09-A-640
EP-218	EU-218	Sanding Station	CE-218/Dust Collector	None	09-A-641
EP-219	EU-219	Sanding Station	CE-219/Dust Collector	None	09-A-642
EP-220	EU-220	Sanding Station	CE-220/Dust Collector	None	09-A-643

## Applicable Requirements

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

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

### Table Sanding Stations-3

EP	EU	Opacity	PM10	PM	PM
EP-211	EU-211	40% <sup>(1)</sup>	0.05 lb/hr	0.05 lb/hr	0.1 gr/dscf
EP-212	EU-212	40% <sup>(1)</sup>	0.05 lb/hr	0.05 lb/hr	0.1 gr/dscf
EP-213	EU-213	40% <sup>(1)</sup>	0.05 lb/hr	0.05 lb/hr	0.1 gr/dscf
EP-214	EU-214	40% <sup>(1)</sup>	0.05 lb/hr	0.05 lb/hr	0.1 gr/dscf
EP-215	EU-215	40% <sup>(1)</sup>	0.05 lb/hr	0.05 lb/hr	0.1 gr/dscf
EP-216	EU-216	40% <sup>(1)</sup>	0.05 lb/hr	0.05 lb/hr	0.1 gr/dscf
EP-217	EU-217	40% <sup>(1)</sup>	0.05 lb/hr	0.05 lb/hr	0.1 gr/dscf
EP-218	EU-218	40% <sup>(1)</sup>	0.05 lb/hr	0.05 lb/hr	0.1 gr/dscf
EP-219	EU-219	40% <sup>(1)</sup>	0.05 lb/hr	0.05 lb/hr	0.1 gr/dscf
EP-220	EU-220	40% <sup>(1)</sup>	0.05 lb/hr	0.05 lb/hr	0.1 gr/dscf

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

**Table Sanding Stations-4**

<b>Pollutant</b>	<b>Emission Limits</b>	<b>Authority of Requirement</b>
Opacity	40%	IDNR construction permits listed in Table 2 567 IAC 23.3(2) "d"
PM10	0.05 lb/hr	IDNR construction permits listed in Table 2
PM	0.05 lb/hr	IDNR construction permits listed in Table 2
PM	0.1 gr/dscf	IDNR construction permits listed in Table 2 567 IAC 23.3(2) "a"

**Operational Limits & Requirements**

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

**Operating Limits**

- A. The dust collector associated with this emission point shall be operated and maintained according to the manufacturer's recommendations.

**Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. Maintain a copy of the dust collector manufacturer's recommendation on the maintenance and operation of the dust collector.
- B. Log all maintenance activities performed on the dust collector associated with emission point. This log shall include, but not be limited to, the date and time any inspections of the dust collector occurs, any issues with the dust collector identified, and any corrective action taken to resolve noted issues with the dust collector.

Authority for Requirement: Iowa DNR Construction Permits listed in Table 2

**Emission Point Characteristics**

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

**Table Sanding Stations-5**

	Stack Height (ft, from the ground)	Stack Opening (dia. inch)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement IDNR Construction Permit
EP-211	NA	NA	1,500	70	Indoor Vent	09-A-622
EP-212	NA	NA	1,500	70	Indoor Vent	09-A-635
EP-213	NA	NA	1,500	70	Indoor Vent	09-A-636
EP-214	NA	NA	1,500	70	Indoor Vent	09-A-637
EP-215	NA	NA	1,500	70	Indoor Vent	09-A-638
EP-216	NA	NA	1,500	70	Indoor Vent	09-A-639
EP-217	NA	NA	1,500	70	Indoor Vent	09-A-640
EP-218	NA	NA	1,500	70	Indoor Vent	09-A-641
EP-219	NA	NA	1,500	70	Indoor Vent	09-A-642
EP-220	NA	NA	1,500	70	Indoor Vent	09-A-643

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: EP-223**

Associated Equipment

Associated Emission Unit ID Numbers: EU-223  
Emissions Control Equipment ID Number: None  
Emissions Control Equipment Description: None  
Continuous Emissions Monitors ID Numbers: NA

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Emission Unit vented through this Emission Point: EU-223  
Emission Unit Description: Pre-Finish Sanding Station (Indoor Venting)  
Raw Material/Fuel: Sand  
Rated Capacity: 150 ft/min

**Applicable Requirements**

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

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

Pollutant: Opacity  
Emission Limit(s): 40% <sup>(1)</sup>  
Authority for Requirement: Iowa DNR Construction Permit 10-A-517  
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM<sub>10</sub>)  
Emission Limit(s): 0.145 lb/hr  
Authority for Requirement: Iowa DNR Construction Permit 10-A-517

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.145 lb/hr; 0.1 gr/dscf  
Authority for Requirement: Iowa DNR Construction Permit 10-A-517  
567 IAC 23.3(2) "a"

**Operational Limits & Requirements**

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

Operational limits are not required at this time.

**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: Spray Paint Booths

**Table Spray Paint Booths-1**

EP	EU	Emission Unit Description	Raw Material	Rated Capacity, gal/hr
EP-132	EU-132	Spray Paint Booth #8	Paint, Stain, Vanish	26.0
EP-136	EU-136	Spray Booth #10 - Prefinish	Paint, Stain, Vanish	26.0
EP-137	EU-137	Spray Booth #11 - Prefinish	Paint, Stain, Vanish	26.0
EP-138	EU-138	Spray Booth #12 - Prefinish	Paint, Stain, Vanish	26.0
EP-140	EU-140	Spray Paint Booth #13	Paint, Stain, Vanish	26.0
EP-141	EU-141	Spray Paint Booth #14	Paint, Stain, Vanish	26.0
EP-142	EU-142	Spray Paint Booth #15	Paint, Stain, Vanish	26.0
EP-144	EU-144	Spray Paint Booth #16 - Prefinish	Paint, Stain, Vanish	26.0
EP-145	EU-145	Spray Paint Booth #17 - Prefinish	Paint, Stain, Vanish	26.0
EP-146	EU-146	Spray Paint Booth #18	Paint, Stain, Vanish	26.0

**Table Spray Paint Booths-2**

EP	EU	Emission Unit Description	CE	CEM	IDNR Construction Permit
EP-132	EU-132	Spray Paint Booth #8	CE-132/Dry Filter	None	08-A-199-S5
EP-136	EU-136	Spray Booth #10 - Prefinish	CE-136/Dry Filter	None	08-A-357-S4
EP-137	EU-137	Spray Booth #11 - Prefinish	CE-137/Dry Filter	None	08-A-358-S4
EP-138	EU-138	Spray Booth #12 - Prefinish	CE-138/Dry Filter	None	08-A-359-S4
EP-140	EU-140	Spray Paint Booth #13	CE-140/Dry Filter	None	08-A-361-S4
EP-141	EU-141	Spray Paint Booth #14	CE-141/Dry Filter	None	08-A-362-S4
EP-142	EU-142	Spray Paint Booth #15	CE-142/Dry Filter	None	08-A-363-S4
EP-144	EU-144	Spray Paint Booth #16 - Prefinish	CE-144/Dry Filter	None	08-A-365-S4
EP-145	EU-145	Spray Paint Booth #17 - Prefinish	CE-145/Dry Filter	None	08-A-366-S4
EP-146	EU-146	Spray Paint Booth #18	CE-146/Dry Filter	None	08-A-367-S3

### Applicable Requirements

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

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

**Table Spray Paint Booths-3**

EP	EU	Opacity	PM10	PM	PM
EP-132	EU-132	40% <sup>(1)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf
EP-136	EU-136	40% <sup>(1)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf
EP-137	EU-137	40% <sup>(1)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf
EP-138	EU-138	40% <sup>(1)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf
EP-140	EU-140	40% <sup>(1)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf
EP-141	EU-141	40% <sup>(1)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf
EP-142	EU-142	40% <sup>(1)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf
EP-144	EU-144	40% <sup>(1)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf
EP-145	EU-145	40% <sup>(1)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf
EP-146	EU-146	40% <sup>(1)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf

<sup>(1)</sup>If visible emissions are observed other than start-up, shut-down, or malfunction, a stack test maybe required to demonstrate compliance with the particulate standard.

**Table Spray Paint Booths-4**

<b>Pollutant</b>	<b>Emission Limits</b>	<b>Authority of Requirement</b>
Opacity	40%	IDNR construction permits listed in Table 2 567 IAC 23.3(2) "d"
PM10	0.03 lb/hr	IDNR construction permits listed in Table 2
PM	0.03 lb/hr	IDNR construction permits listed in Table 2
PM	0.01 gr/dscf	IDNR construction permits listed in Table 2 567 IAC 23.4(13)

**Operational Limits & Requirements**

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

**Operating Limits**

- A. The VOC content of any coating material (e.g. primer, stain, clearcoat, topcoat, thickener) used in all surface coating operation associated with the pre-finished product line shall not exceed 1.70 pounds per gallon as applied.
- B. The amount of any coating material (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content less than or equal to 0.33 pounds per gallon used in the pre-finished product line shall not exceed 40,000 gallons per twelve (12) month rolling period, rolled monthly.
- C. The amount of any coating material (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content greater than 0.33 pounds per gallon and less than or equal to 0.56 pounds per gallon used in the pre-finished product line shall not exceed 17,000 gallons per twelve (12) month rolling period, rolled monthly.
- D. The amount of any coating material (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content greater than 0.56 pounds per gallon and less than or equal to 0.93 pounds per gallon used in the pre-finished product line shall not exceed 25,000 gallons per twelve (12) month rolling period, rolled monthly.
- E. The amount of any coating material (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content greater than 0.93 pounds per gallon and less than or equal to 1.15 pounds per gallon used in the pre-finished product line shall not exceed 28,000 gallons per twelve (12) month rolling period, rolled monthly.
- F. The amount of any coating material (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content greater than 1.15 pounds per gallon and less than or equal to 1.70 pounds per gallon used in the pre-finished product line shall not exceed 15 gallons per twelve (12) month rolling period, rolled monthly.
- G. The filters used in this emissions unit shall be operated and maintained in accordance with the recommendations of the manufacturer.
- H. The permittee shall maintain the MSDS of materials used in the paint booth on site.

## **Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. The permittee shall maintain records on the identification and the VOC content of each material used in this emissions unit.
- B. At the end of each month, record the number of gallons of coating materials (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content of less than or equal to 0.33 pounds per gallon that were used in the pre-finished product line over the previous month. Calculate and record the rolling 12-month total.
- C. At the end of each month, record the number of gallons of coating materials (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content of greater than 0.33 pounds per gallon and less than or equal to 0.56 pounds per gallon that were used in the pre-finished product line over the previous month. Calculate and record the rolling 12-month total.
- D. At the end of each month, record the number of gallons of coating materials (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content of greater than 0.56 pounds per gallon and less than or equal to 0.93 pounds per gallon that were used in the pre-finished product line over the previous month. Calculate and record the rolling 12-month total.
- E. At the end of each month, record the number of gallons of coating materials (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content of greater than 0.93 pounds per gallon and less than or equal to 1.15 pounds per gallon that were used in the pre-finished product line over the previous month. Calculate and record the rolling 12-month total.
- F. At the end of each month, record the number of gallons of coating materials (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content of greater than 1.15 pounds per gallon and less than or equal to 1.70 pounds per gallon that were used in the pre-finished product line over the previous month. Calculate and record the rolling 12-month total.
- G. The permittee shall submit notifications as required by §63.4710; the permittee shall submit required reports in accordance with §63.4720.
- H. The permittee shall maintain the necessary records in accordance with §63.4730 and §63.4731.
- I. If using the Compliant Material Option to comply with the HAP limit, the permittee shall follow the requirements of §63.4740, §63.4741, and §63.4742.
- J. If using the Emission Rate without Add-on Control Option to comply with the HAP limit, the permittee shall follow the requirements of §63.4750, §63.4751, and §63.4752.
- K. The permittee shall maintain records on the types of dry filters used in this emissions unit.

Authority for Requirement: Iowa DNR Construction Permits listed in Table 2

## **NSPS and NESHAP Applicability**

This emission unit is subject to NESHAP Subpart A – General Provisions and Subpart QQQQ – National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products.

Authority for Requirement: Iowa DNR Construction Permits listed in Table 2

**Emission Point Characteristics**

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

**Table Spray Paint Booths-5**

	Stack Height (ft, from the ground)	Stack Opening (dia. inch)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement IDNR Construction Permit
EP-132	39.5	18	2000-3600	70	Vertical Unobstructed	08-A-199-S5
EP-136	32	14	1200-2600	70	Vertical Unobstructed	08-A-357-S4
EP-137	32	14	1200-2600	70	Vertical Unobstructed	08-A-358-S4
EP-138	32	14	1200-2600	70	Vertical Unobstructed	08-A-359-S4
EP-140	32	14	1200-2600	70	Vertical Unobstructed	08-A-361-S4
EP-141	31	14	1200-2600	70	Vertical Unobstructed	08-A-362-S4
EP-142	31	14	1200-2600	70	Vertical Unobstructed	08-A-363-S4
EP-144	35	14	1200-2600	70	Vertical Unobstructed	08-A-365-S4
EP-145	35	18	1200-2600	70	Vertical Unobstructed	08-A-366-S4
EP-146	37.5	14	2000-3600	70	Vertical Unobstructed	08-A-367-S3

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: Surface Coating Booths

**Table Surface Coating Booths-1**

EP	EU	Emission Unit Description	Raw Material	Rated Capacity, gal/hr
EP-118	EU-118	Stain Booth	Paint, Stain, Vanish	6.5
EP-119	EU-119	Paint Spray Booth #1	Paint	6.5
EP-121	EU-121	Surface Coating Application	Paint	26.0
EP-123	EU-123	Surface Coating Application	Paint	26.0
EP-125	EU-125	Surface Coating Application	Paint	26.0
EP-130	EU-130	Surface Coating Application	Paint	26.0
EP-134	EU-134	Surface Coating Application	Paint	26.0

**Table Surface Coating Booths -2**

EP	EU	Emission Unit Description	CE	CEM	IDNR Construction Permit
EP-118	EU-118	Stain Booth	CE-118/Dry Filter	None	07-A-129-S7
EP-119	EU-119	Paint Spray Booth #1	CE-119/Dry Filter	None	07-A-130-S7
EP-121	EU-121	Surface Coating Application	CE-121/Dry Filter	None	07-A-132-S7
EP-123	EU-123	Surface Coating Application	CE-123/Dry Filter	None	07-A-992-S7
EP-125	EU-125	Surface Coating Application	CE-125/Dry Filter	None	07-A-994-S7
EP-130	EU-130	Surface Coating Application	CE-130/Dry Filter	None	08-A-197-S5
EP-134	EU-134	Surface Coating Application	CE-134/Dry Filter	None	08-A-201-S5

### Applicable Requirements

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

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

**Table Surface Coating Booths-3**

EP	EU	Opacity	PM10	PM	PM
EP-118	EU-118	40% <sup>(1)</sup>	0.07 lb/hr	0.07 lb/hr	0.01 gr/dscf
EP-119	EU-119	40% <sup>(1)</sup>	0.07 lb/hr	0.07 lb/hr	0.01 gr/dscf
EP-121	EU-121	40% <sup>(1)</sup>	0.07 lb/hr	0.07 lb/hr	0.01 gr/dscf
EP-123	EU-123	40% <sup>(1)</sup>	0.07 lb/hr	0.07 lb/hr	0.01 gr/dscf
EP-125	EU-125	40% <sup>(1)</sup>	0.07 lb/hr	0.07 lb/hr	0.01 gr/dscf
EP-130	EU-130	40% <sup>(1)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf
EP-134	EU-134	40% <sup>(1)</sup>	0.03 lb/hr	0.03 lb/hr	0.01 gr/dscf

<sup>(1)</sup>If visible emissions are observed other than start-up, shut-down, or malfunction, a stack test maybe required to demonstrate compliance with the particulate standard.

**Table Surface Coating Booths Surface Coating Booths -4**

<b>Pollutant</b>	<b>Emission Limits</b>	<b>Authority of Requirement</b>
Opacity	40%	IDNR construction permits listed in Table 2 567 IAC 23.3(2) "d"
PM10	0.07 lb/hr	IDNR construction permits listed in Table 2
PM	0.07 lb/hr	IDNR construction permits listed in Table 2
PM	0.03 lb/hr	IDNR construction permits listed in Table 2
PM	0.01 gr/dscf	IDNR construction permits listed in Table 2 567 IAC 23.4(13)

**Operational Limits & Requirements**

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

**Operating Limits**

- A. The VOC content of any coating material (e.g. primer, stain, clearcoat, topcoat, thickener) used in all surface coating operation associated with the pre-finished product line shall not exceed 1.70 pounds per gallon as applied.
- B. The amount of any coating material (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content less than or equal to 0.33 pounds per gallon used in the pre-finished product line shall not exceed 40,000 gallons per twelve (12) month rolling period, rolled monthly.
- C. The amount of any coating material (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content greater than 0.33 pounds per gallon and less than or equal to 0.56 pounds per gallon used in the pre-finished product line shall not exceed 17,000 gallons per twelve (12) month rolling period, rolled monthly.
- D. The amount of any coating material (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content greater than 0.56 pounds per gallon and less than or equal to 0.93 pounds per gallon used in the pre-finished product line shall not exceed 25,000 gallons per twelve (12) month rolling period, rolled monthly.
- E. The amount of any coating material (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content greater than 0.93 pounds per gallon and less than or equal to 1.15 pounds per gallon used in the pre-finished product line shall not exceed 28,000 gallons per twelve (12) month rolling period, rolled monthly.
- F. The amount of any coating material (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content greater than 1.15 pounds per gallon and less than or equal to 1.70 pounds per gallon used in the pre-finished product line shall not exceed 15 gallons per twelve (12) month rolling period, rolled monthly.
- G. The filters used in this emissions unit shall be operated and maintained in accordance with the recommendations of the manufacturer.
- H. The permittee shall maintain the MSDS of materials used in the paint booth on site.

## **Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. The permittee shall maintain records on the identification and the VOC content of each material used in this emissions unit.
- B. At the end of each month, record the number of gallons of coating materials (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content of less than or equal to 0.33 pounds per gallon that were used in the pre-finished product line over the previous month. Calculate and record the rolling 12-month total.
- C. At the end of each month, record the number of gallons of coating materials (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content of greater than 0.33 pounds per gallon and less than or equal to 0.56 pounds per gallon that were used in the pre-finished product line over the previous month. Calculate and record the rolling 12-month total.
- D. At the end of each month, record the number of gallons of coating materials (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content of greater than 0.56 pounds per gallon and less than or equal to 0.93 pounds per gallon that were used in the pre-finished product line over the previous month. Calculate and record the rolling 12-month total.
- E. At the end of each month, record the number of gallons of coating materials (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content of greater than 0.93 pounds per gallon and less than or equal to 1.15 pounds per gallon that were used in the pre-finished product line over the previous month. Calculate and record the rolling 12-month total.
- F. At the end of each month, record the number of gallons of coating materials (e.g. primer, stain, clearcoat, topcoat, thickener) with a VOC content of greater than 1.15 pounds per gallon and less than or equal to 1.70 pounds per gallon that were used in the pre-finished product line over the previous month. Calculate and record the rolling 12-month total.
- G. The permittee shall submit notifications as required by §63.4710; the permittee shall submit required reports in accordance with §63.4720.
- H. The permittee shall maintain the necessary records in accordance with §63.4730 and §63.4731.
- I. If using the Compliant Material Option to comply with the HAP limit, the permittee shall follow the requirements of §63.4740, §63.4741, and §63.4742.
- J. If using the Emission Rate without Add-on Control Option to comply with the HAP limit, the permittee shall follow the requirements of §63.4750, §63.4751, and §63.4752.
- K. The permittee shall maintain records on the types of dry filters used in this emissions unit.

Authority for Requirement: Iowa DNR Construction Permits listed in Table 2

## **NSPS and NESHAP Applicability**

These emission units are subject to NESHAP Subpart A – General Provisions and Subpart QQQQ – National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products.

Authority for Requirement: Iowa DNR Construction Permits listed in Table 2

**Emission Point Characteristics**

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

**Table Surface Coating Booths-5**

	Stack Height (ft, from the ground)	Stack Opening (dia. inch)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement IDNR Construction Permit
EP-118	33	34	7000-11000	Ambient	Verticals Unobstructed	07-A-129-S7
EP-119	33	34	7000-11000	Ambient	Verticals Unobstructed	07-A-130-S7
EP-121	33	34	7000-11000	Ambient	Verticals Unobstructed	07-A-132-S7
EP-123	33.5	34	7000-11000	Ambient	Verticals Unobstructed	07-A-992-S7
EP-125	33.5	34	7000-11000	Ambient	Verticals Unobstructed	07-A-994-S7
EP-130	40	14	1200-1600	Ambient	Verticals Unobstructed	08-A-197-S5
EP-134	34.5	14	1200-1600	Ambient	Verticals Unobstructed	08-A-201-S5

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

**Monitoring Requirements**

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP-229**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-229  
Emissions Control Equipment ID Number: CE-229  
Emissions Control Equipment Description: Dry Filter  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-229  
Emission Unit Description: Surface Coating Booth  
Raw Material/Fuel: Paint  
Rated Capacity: 6.5 gal/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: Iowa DNR Construction Permit 11-A-734  
567 IAC 23.3(2) "d"

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

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

Emission Limit(s): 0.07 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 11-A-734

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.07 lb/hr; 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 11-A-734  
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 5.0 ton/yr <sup>(2)</sup>

Authority for Requirement: Iowa DNR Construction Permit 11-A-734

<sup>(2)</sup>VOC bubble limit requested by facility. Bubble applies to EU-229 and EU-230. It is assumed that all emissions are accounted for in the record keeping required for EU-229 (Spray Booth).

## **Operational Limits & Requirements**

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

### **Operating Limits**

- A. The maximum VOC content for all coating materials, with the exception of the adhesion promoter addressed in Item B in this section, utilized in this booth shall be 1.0 pounds VOC per gallon.
- B. The maximum VOC content of the adhesion promoter utilized in this spray booth shall be 7.0 lb VOC per gallon.
- C. This emission unit shall be limited to the use of no more than 45 gallons of adhesion promoter (as described in Item B) per rolling 12-month period.
- D. This emission unit shall be limited to the use of no more than 9,685 gallons of coating material (excluding the adhesion promoter detailed in Item B and Item C), per rolling 12-month period.
- E. All materials utilized in this spray booth shall comply with the appropriate NESHAP as listed in the section of NSPS and NESHAP Applicability, for the substrate being coated. In the event that 2 or more substrates are being coated simultaneously, the owner/operator shall demonstrate compliance by either; complying with the most stringent of the NESHAP requirements or utilization of compliance options detailed in the applicable NESHAP subparts. These NESHAP requirements may be found in 40 CFR §63.3890, 40 CFR §63.4690, and 40 CFR §63.4490.
- F. Operate and maintain the spray booth and associated fabric filters in accordance with manufacturer's recommendation.

### **Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. Record the amount and type of each coating material utilized in the spray booth (EU-229) monthly.
- B. Calculate and record the total amount of coating material utilized in the spray booth (EU-229) on a rolling 12-month basis.
- C. The facility shall keep records noting the methodology they are implementing to demonstrate compliance with the appropriate NESHAP monitoring requirements. The subject NESHAPs are as follows:
  - C1.40 CFR 63 Subpart MMMM – National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products.
  - C2.40 CFR 63 Subpart PPPP– National Emission standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products.
  - C3.40 CFR 63 Subpart QQQQ – National Emission Standards for Hazardous Air Pollutants: surface Coating of Wood Building Products.
- D. Calculate and record the total VOC emissions in tons per month that are emitted from EP-229.
- E. Calculate and record the total VOC emissions in tons per rolling 12-month period that are emitted from EP-229.

- F. If the rolling 12-month total of the VOC emission from EP-229 (and attributed to EU-229) exceeds 4.0 tons per 12-month rolling period, the permittee shall maintain the following daily records:
- F1. The total tons of VOC emissions from EP-229;
  - F2. The rolling 365 – day total tons of VOC emissions form EP229 shall continue until the rolling 365-day total amount of VOC emissions drops below 4.0 tons for 180 consecutive days. At that time, rolling monthly calculation of VOC emissions may commence as specified in Section 15.F above.
- G. Keep a log of all maintenance actions performed regarding the Spray booth and associated fabric filters.

Authority for Requirement: Iowa DNR Construction Permit 11-A-734

### **NSPS and NESHAP Applicability**

This emission unit is subject to the following NESHAP Subparts:

40 CFR 63 Subpart A – General Provisions.

40 CFR 63 Subpart MMMM – National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products.

40 CFR 63 Subpart PPPP– National Emission standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products.

40 CFR 63 Subpart QQQQ – National Emission Standards for Hazardous Air Pollutants: surface Coating of Wood Building Products.

Authority for Requirement: Iowa DNR Construction Permit 11-A-734

### **Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 33

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 7,000-12,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 11-A-734

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

**Monitoring Requirements**

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: Surface Prep Units

### Associated Equipment

**Table Surface Prep Units-1**

EP	EU	Emission Unit Description	Raw Material	Rated Capacity, ft/hr
EP-160	EU-160	Surface PreP#2	Wood	12000.00
EP-161	EU-161	Surface PreP#3	Wood	12000.00
EP-162	EU-162	Surface PreP#4	Wood	12000.00
EP-163	EU-163	Surface PreP#5	Wood	12000.00
EP-167	EU-167	Surface PreP#9	Wood	12000.00

**Table Surface Prep Units-2**

EP	EU	Emission Unit Description	CE	CEM	IDNR Construction Permit
EP-160	EU-160	Surface PreP#2	CE-160A; CE-160B Cyclone and Cartridge Filter	None	08-A-204-S3
EP-161	EU-161	Surface PreP#3	CE-161A; CE-161B Cyclone and Cartridge Filter	None	08-A-205-S3
EP-162	EU-162	Surface PreP#4	CE-162A; CE-162B Cyclone and Cartridge Filter	None	08-A-206-S3
EP-163	EU-163	Surface PreP#5	CE-163A; CE-163B Cyclone and Cartridge Filter	None	08-A-207-S3
EP-167	EU-167	Surface PreP#9	CE-167A; CE-167B Cyclone and Cartridge Filter	None	08-A-211-S3

### Applicable Requirements

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

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

**Table Surface Prep Units-3**

EP	EU	Opacity	PM10	PM	PM
EP-160	EU-160	40% <sup>(1)</sup>	0.015 lb/hr	0.015 lb/hr	0.1 gr/dscf
EP-161	EU-161	40% <sup>(1)</sup>	0.015 lb/hr	0.015 lb/hr	0.1 gr/dscf
EP-162	EU-162	40% <sup>(1)</sup>	0.015 lb/hr	0.015 lb/hr	0.1 gr/dscf
EP-163	EU-163	40% <sup>(1)</sup>	0.015 lb/hr	0.015 lb/hr	0.1 gr/dscf
EP-167	EU-167	40% <sup>(1)</sup>	0.015 lb/hr	0.015 lb/hr	0.1 gr/dscf

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

**Table Surface Prep Units-4**

<b>Pollutant</b>	<b>Emission Limits</b>	<b>Authority of Requirement</b>
Opacity	40%	IDNR construction permits listed in Table 2 567 IAC 23.3(2) "d"
PM10	0.015 lb/hr	IDNR construction permits listed in Table 2
PM	0.015 lb/hr	IDNR construction permits listed in Table 2
PM	0.1 gr/dscf	IDNR construction permits listed in Table 2 567 IAC 23.3(2) "a"

**Operational Limits & Requirements**

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

**Operating Limits**

- A. The pressure drop across the cartridge filter shall be maintained between 0.25 inches of water column and 3 inches of water column during regular operation. Momentary periods of cleaning of the filter media is allowed with pressure drops across the cartridge filter of 5 inches of water column allowed during the cleaning operation.

**Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. Once during a period of normal operation during each working shift, read and record the pressure drop across the cartridge filter.

Authority for Requirement: Iowa DNR Construction Permits listed in Table 2

**NSPS and NESHAP Applicability**

These emission units are subject to NESHAP Subpart A – General Provisions and Subpart QQQQ – National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products.

Authority for Requirement: Iowa DNR Construction Permits listed in Table 2

**Emission Point Characteristics**

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

**Table Surface Prep Units-5**

	Stack Height (ft, from the ground)	Stack Opening (dia. inch)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement IDNR Construction Permit
EP-160	34.5	16	2500-3000	70	Vertical Unobstructed	08-A-204-S3
EP-161	31	16	2500-3000	70	Vertical Unobstructed	08-A-205-S3
EP-162	31	16	2500-3000	70	Vertical Unobstructed	08-A-206-S3
EP-163	32	16	2500-3000	70	Vertical Unobstructed	08-A-207-S3
EP-167	37	16	2500-3000	70	Vertical Unobstructed	08-A-211-S3

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: Topcoat Ovens

**Table Topcoat Ovens-1**

EP	EU	Emission Unit Description	Raw Material	Rated Capacity, ft/hr
EP-139	EU-139	Topcoat Oven	Electricity	360.0
EP-143	EU-143	Topcoat Oven	Electricity	360.0

**Table Topcoat Ovens-2**

EP	EU	Emission Unit Description	CE	CEM	IDNR Construction Permit
EP-139	EU-139	Topcoat Oven	None	None	08-A-360-S3
EP-143	EU-143	Topcoat Oven	None	None	08-A-364-S3

### Applicable Requirements

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

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

**Table Topcoat Ovens-3**

EP	EU	Opacity	PM10	PM	PM
EP-139	EU-139	40% <sup>(1)</sup>	0.005 lb/hr	0.005 lb/hr	0.1 gr/dscf
EP-143	EU-143	40% <sup>(1)</sup>	0.005 lb/hr	0.005 lb/hr	0.1 gr/dscf

<sup>(1)</sup> If visible emissions are observed other than start-up, shut-down, or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

**Table Topcoat Ovens-4**

Pollutant	Emission Limits	Authority of Requirement
Opacity	40%	IDNR construction permits listed in Table 2 567 IAC 23.3(2) "d"
PM10	0.005 lb/hr	IDNR construction permits listed in Table 2
PM	0.005 lb/hr	IDNR construction permits listed in Table 2
PM	0.1 gr/dscf	IDNR construction permits listed in Table 2 567 IAC 23.3(2) "a"

#### Operational Limits & Requirements

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

Operational limits are not required at this time.

#### **NSPS and NESHAP Applicability**

These emission units are subject to NESHAP Subpart A – General Provisions and Subpart QQQQ – National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products.

Authority for Requirement: Iowa DNR Construction Permits listed in Table 2

**Emission Point Characteristics**

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

**Table Surface Prep Units-5**

	Stack Height (ft, from the ground)	Stack Opening (dia. inch)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement IDNR Construction Permit
EP-139	32	12	500-1450	70	Vertical Unobstructed	08-A-360-S3
EP-143	30	12	460-1325	120	Vertical Unobstructed	08-A-364-S3

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

**Monitoring Requirements**

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP-169**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-169  
Emissions Control Equipment ID Number: None  
Emissions Control Equipment Description: None  
Continuous Emissions Monitors ID Numbers: NA

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Emission Unit vented through this Emission Point: EU-169

Emission Unit Description: Wood Dip/Dry Door #3

Raw Material/Fuel: Wood Preserves

Rated Capacity: 480.0 parts/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: Iowa DNR Construction Permit 09-A-510  
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 09-A-510  
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 39.4 ton/yr <sup>(2)</sup>

Authority for Requirement: Iowa DNR Construction Permit 09-A-510

<sup>(2)</sup>Limit established for PSD purposes. The 39.4 tons per rolling 12-month total may be entirely consumed alone or in combination of by-pass stacks EP-58\*, EP-89\*, EP-168\* or EP-169 during by-pass operations; or a combination of EP-58\*, EP-89\*, EP-168\* or EP-169 by-pass stacks and EP-CO which controls EU-58\*, EU-89\*, EU-168\* and EU-169. The EP-CO has a bubble limit for multiple units. See the section for the catalytic oxidizer for further clarification. \*: removed units.

Pollutant: Total HAPs

Emission Limit(s): 1.93 lb/gallon solids <sup>(3)</sup>

Authority for Requirement: Iowa DNR Construction Permit 09-A-510  
40 CFR 63 Subpart QQQQ  
567 IAC 23.1(4) "cq"

<sup>(3)</sup>Organic HAP limit from Table 2 of NESHAP Subpart QQQQ for existing affected sources in door, windows, and miscellaneous subcategory. Determined as a rolling 12-month emission rate according to the requirements in 40 CFR §63.4741, 40 CFR §63.4751, or 40 CFR §63.4761, as applicable.

## **Operational Limits & Requirements**

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

### **Operating Limits**

- A. The maximum VOC content of any preservative or mineral spirits added to the Wood Dip-Dry: Door 3 (EU-169) shall not exceed 6.5 pounds per gallon.
- B. The by-pass stack of EP-169 shall have a device to determine the number of hours the by-pass stack is open to the atmosphere.

### **Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. Record the identification and the VOC content of each material added to Wood Dip-Dry: Door 3 (EU-169) in pounds per gallon.
- B. Record the amount of each material added to Wood Dip-Dry: Door 3 (EU-169) in gallons on a daily basis.
- C. Record the number of hours the Wood Dip-Dry: Door 3 (EU-169) is operating on a daily basis.
- D. Record the number of hours the Wood Dip-Dry: Door 3 (EU-169) by-pass stack (EP-169) is open to the atmosphere on a daily basis.
- E. Calculate and record the total VOC emissions in tons per month that are emitted from bypass stack EP-169.
- F. Calculate and record the total VOC emissions in tons per month that are controlled by the control unit (EU-CO) and vented out the control unit stack of EP-CO for the Wood Dip-Dry: Door 3 (EU-169). The destruction efficiency to use for the catalytic oxidizer shall be based on the most recent stack test that has been approved by the Department.
- G. Total (add together) the recorded total VOC emissions of Item E and Item F of this permit on a rolling 12 month basis in tons.
- H. If the rolling, 12-month total of the VOC emissions in tons from Wood Dip-Dry: Door 1 (EU-58\*), Wood Dip-Dry: Door 2 (EU-89\*), Wood Drying Box (EU-168\*) and Wood Dip-Dry: Door 3 (EU-169) exceeds 29.6 tons per 12-month rolling period, the permittee shall maintain the following daily records:
  - H1. The total tons of VOC emissions combined for Wood Dip-Dry: Door 1 (EU-58\*), Wood Dip-Dry: Door 2 (EU-89\*), Wood Drying Box (EU-168\*) and Wood Dip-Dry: Door 3 (EU-169); and
  - H2. The rolling 365-day total tons of VOC emissions combined for Wood Dip-Dry: Door 1 (EU-58\*), Wood Dip-Dry: Door 2 (EU-89\*), Wood Drying Box (EU-168\*) and Wood Dip-Dry: Door 3 (EU-169). Daily recordkeeping/calculations for VOC emissions combined for Wood Dip-Dry: Door 1 (EU-58\*), Wood Dip-Dry: Door 2 (EU-89\*), Wood Drying Box (EU-168\*) and Wood Dip-Dry: Door 3 (EU-169) shall continue until the rolling 365-day total amount of VOC emissions drops below 27.6 tons for 180 consecutive days. At that time, rolling monthly calculation of VOC emissions will then begin and repeating of Item H of this permit as necessary.

\*: removed units.

- I. The permittee shall submit notifications as required by §63.4710; the permittee shall submit required reports in accordance with §63.4720.
- J. The permittee shall maintain the necessary records in accordance with §63.4730 and §63.4731.
- K. If using the Compliant Material Option to comply with the HAP limit, the permittee shall follow the requirements of §63.4740, §63.4741, and §63.4742.
- L. If using the Emission Rate without Add-on Control Option to comply with the HAP limit, the permittee shall follow the requirements of §63.4750, §63.4751, and §63.4752.

Authority for Requirement: Iowa DNR Construction Permit 09-A-510

**NSPS and NESHAP Applicability**

This emission unit is subject to NESHAP Subpart A – General Provisions and Subpart QQQQ – National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products.

Authority for Requirement: Iowa DNR Construction Permit 09-A-510

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 33

Stack Opening, (inches, dia.): 12

Exhaust Flow Rate (scfm): 1,500

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 09-A-510

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP-59**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-59  
Emissions Control Equipment ID Number: None  
Emissions Control Equipment Description: NA  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-59  
Emission Unit Description: Wood Treating Dip  
Raw Material/Fuel: Wood Preserves  
Rated Capacity: 400.0 part/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: Iowa DNR Construction Permit 92-A-559-S10  
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 92-A-559-S10  
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 50.0 ton/yr

Authority for Requirement: Iowa DNR Construction Permit 92-A-559-S10

<sup>(2)</sup>Limit established for PSD purposes. The 50.0 tons per rolling 12-month total may be entirely consumed alone by EP-59 by-pass stack during by-pass operations or a combination of EP-59 by-passes and EP-CO which controls EU-59. The EP-CO is a bubble limit for multiple units see the permit for the catalytic oxidizer for further clarification.

Pollutant: Total HAPs

Emission Limit(s): 1.93 lb HAP/gal Solids <sup>(3)</sup>

Authority for Requirement: Iowa DNR Construction Permit 92-A-559-S10  
40 CFR 63 Subpart QQQQ  
567 IAC 23.1(4) "cq"

<sup>(3)</sup>Organic HAP limit from Table 2 of Subpart QQQQ for existing affected sources in door, windows, and miscellaneous subcategory. Determined as a rolling 12-month emission rate according to the requirements in 40 CFR §63.4741, 40 CFR §63.4751, or 40 CFR §63.4761, as applicable.

## **Operational Limits & Requirements**

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

### **Operating Limits**

- A. The maximum VOC content of any preservative or mineral spirits added to the Wood Dip-Dry DH Frame (EU-59) shall not exceed 6.5 pounds per gallon.
- B. The by-pass stack of EP-59 shall have a device to determine the number of hours the by-pass stack is open to the atmosphere.

### **Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. Record the identification and the VOC content of each material added to Wood Dip-Dry DH Frame (EU-59) in pounds per gallon.
- B. Record the amount of each material added to Wood Dip-Dry DH Frame (EU-59) in gallons on a daily basis.
- C. Record the number of hours the Wood Dip-Dry DH Frame (EU-59) is operating on a daily basis.
- D. Record the number of hours the Wood Dip-Dry DH Frame (EU-59) by-pass stack (EP 59) is open to the atmosphere on a daily basis.
- E. Calculate and record the total VOC emissions in tons per month that are emitted from bypass stack EP-59.
- F. Calculate and record the total VOC emissions in tons per month that are controlled by the control unit (EU-CO) and vented out the control unit stack of EP CO for the Wood Dip-Dry DH Frame (EU-59). The destruction efficiency to use for the catalytic oxidizer shall be based on the most recent stack test that has been approved by the Department.
- G. Total (add together) the recorded total VOC emissions of Item E and Item F of this section on a rolling 12 month basis in tons.
- H. If the rolling, 12-month total of the VOC emissions in tons from Wood Dip-Dry DH Frame (EU-59) exceeds 37.5 tons per 12-month rolling period, the permittee shall maintain the following daily records:
  - H3. The total tons of VOC emissions combined for Wood Dip-Dry DH Frame (EU-59); and
  - H4. The rolling 365-day total tons of VOC emissions combined for Wood Dip-Dry DH Frame (EU-59). Daily recordkeeping/calculations for VOC emissions combined for Wood Dip-Dry DH Frame (EU-59) shall continue until the rolling 365-day total amount of VOC emissions drops below 35.0 tons for 180 consecutive days. At that time, rolling monthly calculation of VOC emissions will then begin and repeating of Item H of this section as necessary.
- I. The permittee shall submit notifications as required by §63.4710; the permittee shall submit required reports in accordance with §63.4720.
- J. The permittee shall maintain the necessary records in accordance with §63.4730 and §63.4731.
- K. If using the Compliant Material Option to comply with the HAP limit, the permittee shall follow the requirements of §63.4740, §63.4741, and §63.4742.

L. If using the Emission Rate without Add-on Control Option to comply with the HAP limit, the permittee shall follow the requirements of §63.4750, §63.4751, and §63.4752.

Authority for Requirement: Iowa DNR Construction Permit 92-A-559-S10

**NSPS and NESHAP Applicability**

This emission unit is subject to NESHAP Subpart A – General Provisions and Subpart QQQQ – National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products.

Authority for Requirement: Iowa DNR Construction Permit 92-A-559-S10

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 29

Stack Opening, (inches, dia.): 12

Exhaust Flow Rate (scfm): 1,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 92-A-559-S10

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP-96**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-96  
Emissions Control Equipment ID Number: None  
Emissions Control Equipment Description: NA  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-96  
Emission Unit Description: Wood Dip/Dry Unit with Catalytic Oxidizer  
Raw Material/Fuel: Wood Preserves  
Rated Capacity: 300.0 part/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: Iowa DNR Construction Permit 01-A-285-S5  
567 IAC 23.3(2) "d"

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 01-A-285-S5  
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 39.4 ton/yr <sup>(2)</sup>

Authority for Requirement: Iowa DNR Construction Permit 01-A-285-S5

<sup>(2)</sup>Limit established for PSD purposes. The 39.4 tons per rolling 12-month total may be entirely consumed alone by EP-96 by-pass stack during by-pass operations or a combination of EP-96 by-passes and EP-CO which controls EU-96. The EP-CO has a bubble limit for multiple units. See the permit for the catalytic oxidizer for further clarification.

Pollutant: Total HAPs

Emission Limit(s): 1.93 lb HAPs/gal Solids <sup>(3)</sup>

Authority for Requirement: Iowa DNR Construction Permit 01-A-285-S5  
40 CFR 63 Subpart QQQQ  
567 IAC 23.4(1) "cq"

<sup>(3)</sup>Organic HAP limit from Table 2 of NESHAP Subpart QQQQ for existing affected sources in door, windows, and miscellaneous subcategory. Determined as a rolling 12-month emission rate according to the requirements in 40 CFR §63.4741, 40 CFR §63.4751, or 40 CFR §63.4761, as applicable.

## **Operational Limits & Requirements**

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

### **Operating Limits**

- A. The maximum VOC content of any preservative or mineral spirits added to the Wood Dip-Dry Casement Sash (EU-96) shall not exceed 6.5 pounds per gallon.
- B. The by-pass stack of EP-96 shall have a device to determine the number of hours the by-pass stack is open to the atmosphere.

### **Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. Record the identification and the VOC content of each material added to Wood Dip-Dry Casement Sash (EU-96) in pounds per gallon.
- B. Record the amount of each material added to Wood Dip-Dry Casement Sash (EU-96) in gallons on a daily basis.
- C. Record the number of hours the Wood Dip-Dry Casement Sash (EU-96) is operating on a daily basis.
- D. Record the number of hours the Wood Dip-Dry Casement Sash (EU-96) by-pass stack (EP-96) is open to the atmosphere on a daily basis.
- E. Calculate and record the total VOC emissions in tons per month that are emitted from bypass stack EP-96.
- F. Calculate and record the total VOC emissions in tons per month that are controlled by the control unit (EU-CO) and vented out the control unit stack of EP-CO for the Wood Dip-Dry Casement Sash (EU-96). The destruction efficiency to use for the catalytic oxidizer shall be based on the most recent stack test that has been approved by the Department.
- G. Total (add together) the recorded total VOC emissions of Item E and Item F of this section on a rolling 12 month basis in tons.
- H. If the rolling, 12-month total of the VOC emissions in tons from Wood Dip-Dry Casement Sash (EU-96) exceeds 29.6 tons per 12-month rolling period, the permittee shall maintain the following daily records:
  - H1. The total tons of VOC emissions combined for Wood Dip-Dry Casement Sash (EU-96); and
  - H2. The rolling 365-day total tons of VOC emissions combined for Wood Dip-Dry Casement Sash (EU-96). Daily recordkeeping/calculations for VOC emissions combined for Wood Dip-Dry Casement Sash (EU-96) shall continue until the rolling 365-day total amount of VOC emissions drops below 27.6 tons for 180 consecutive days. At that time, rolling monthly calculation of VOC emissions will then begin and repeating of Item H of this section as necessary.
- I. The permittee shall submit notifications as required by §63.4710; the permittee shall submit required reports in accordance with §63.4720.
- J. The permittee shall maintain the necessary records in accordance with §63.4730 and §63.4731.

- K. If using the Compliant Material Option to comply with the HAP-limit, the permittee shall follow the requirements of §63.4740, §63.4741, and §63.4742.
- L. If using the Emission Rate without Add-on Control Option to comply with the HAP limit, the permittee shall follow the requirements of §63.4750, §63.4751, and §63.4752.

Authority for Requirement: Iowa DNR Construction Permit 01-A-285-S5

**NSPS and NESHAP Applicability**

This emission unit is subject to NESHAP Subpart A – General Provisions and Subpart QQQQ – National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products.

Authority for Requirement: Iowa DNR Construction Permit 01-A-285-S5

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 28

Stack Opening, (inches, dia.): 12

Exhaust Flow Rate (scfm): 2,100

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 01-A-285-S5

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: Wood Dip-Dry Units (EP-60, EP-62, EP-63)**

**Table Wood Dip Dry Units-1**

EP	EU	Emission Unit Description	Raw Material	Rated Capacity, part/hr
EP-60	EU-60	Wood Treating Stack	Wood Preserves	1400.0
EP-62	EU-62	Wood Dip/Dry Unit	Wood Preserves	860.0
EP-63	EU-63	Wood Dip/Dry Unit	Wood Preserves	1500.0

**Table Wood Dip Dry Units-2**

EP	EU	Emission Unit Description	CE	CEM	IDNR Construction Permit
EP-60	EU-60	Wood Treating Stack	None	None	92-A-560-S10
EP-62	EU-62	Wood Dip/Dry Unit	None	None	92-A-562-S9
EP-63	EU-63	Wood Dip/Dry Unit	None	None	92-A-563-S10

**Applicable Requirements**

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

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

**Table Wood Dip Dry Units-3**

EP	EU	Opacity	PM	VOC	Total HAPs
EP-60	EU-60	40% <sup>(1)</sup>	0.01 gr/dscf	39.4 ton/yr <sup>(2)</sup>	1.93 lb HAPs/gal Solids <sup>(3)</sup>
EP-62	EU-62	40% <sup>(1)</sup>	0.01 gr/dscf	39.4 ton/yr <sup>(2)</sup>	1.93 lb HAPs/gal Solids <sup>(3)</sup>
EP-63	EU-63	40% <sup>(1)</sup>	0.01 gr/dscf	39.4 ton/yr <sup>(2)</sup>	1.93 lb HAPs/gal Solids <sup>(3)</sup>

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

<sup>(2)</sup>Limit established for PSD purposes. The 39.4 tons per rolling 12-month total may be entirely consumed alone or in combination of by-pass stacks EP-60, EP-62, or EP-63 during by-pass operations; or a combination of EP-60, EP-62, or EP-63 by-pass stacks and EP-CO which controls EU-60, EU-62, and EU-63. The EP-CO has a bubble limit for multiple units. See the permit for the catalytic oxidizer for further clarification.

<sup>(3)</sup>Organic HAP limit from Table 2 of NESHAP Subpart QQQQ for existing affected sources in door, windows, and miscellaneous subcategory. Determined as a rolling 12-month emission rate according to the requirements in 40 CFR §63.4741, 40 CFR §63.4751, or 40 CFR §63.4761, as applicable.

**Table Wood Dip Dry Units-4**

Pollutant	Emission Limits	Authority of Requirement
Opacity	40%	IDNR construction permits listed in Table 2 567 IAC 23.3(2) "d"
PM	0.01 gr/dscf	IDNR construction permits listed in Table 2 567 IAC 23.4(13)
VOC	39.4 ton/yr	IDNR construction permits listed in Table 2
Total HAPs	1.93 lb/ HAPs/gal Solids	IDNR construction permits listed in Table 2 40 CFR Part 63 Subpart QQQQ 567 IAC 23.1(4) "cq"

## **Operational Limits & Requirements**

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

### **Operating Limits**

- A. The maximum VOC content of any preservative or mineral spirits added to each Wood Dip-Dry DS Casement Frame (EU-60, EU-62, EU-63) shall not exceed 6.5 pounds per gallon.
- B. The by-pass stack of each Wood Dip-Dry Unit (EP-60, EP-62, EP-63) shall have a device to determine the number of hours the by-pass stack is open to the atmosphere.

### **Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. Record the identification and the VOC content of each material added to each Wood Dip-Dry DS Casement Frame (EU-60, EU-62, EU-63) in pounds per gallon.
- B. Record the amount of each material added to each Wood Dip-Dry DS Casement Frame (EU-60, EU-62, EU-63) in gallons on a daily basis.
- C. Record the number of hours the Wood Dip-Dry DH Sash (EU-60) is operating on a daily basis.
- D. Record the number of hours the Wood Dip-Dry DH Sash (EU-60) by-pass stack (EP-60) is open to the atmosphere on a daily basis.
- E. Record the number of hours the Wood Dip-Dry DS Casement Frame (EU-62) is operating on a daily basis.
- F. Record the number of hours the Wood Dip-Dry DS Casement Frame (EU-62) by-pass stack (EP-62) is open to the atmosphere on a daily basis.
- G. Record the number of hours the Wood Dip-Dry Casement Sash (EU-63) is operating on a daily basis.
- H. Record the number of hours the Wood Dip-Dry Casement Sash (EU-63) by-pass stack (EP-63) is open to the atmosphere on a daily basis.
- I. Calculate and record the total VOC emissions in tons per month that are emitted from bypass stack EP-60.
- J. Calculate and record the total VOC emissions in tons per month that are emitted from bypass stack EP-62.
- K. Calculate and record the total VOC emissions in tons per month that are emitted from bypass stack EP-63.
- L. Calculate and record the total VOC emissions in tons per month that are controlled by the control unit (EU-CO) and vented out the control unit stack of EP-CO for the Wood Dip-Dry DH Sash (EU-60). The destruction efficiency to use for the catalytic oxidizer shall be based on the most recent stack test that has been approved by the Department.
- M. Calculate and record the total VOC emissions in tons per month that are controlled by the control unit (EU-CO) and vented out the control unit stack of EP-CO for the Wood Dip-Dry DS Casement Frame (EU-62). The destruction efficiency to use for the catalytic oxidizer shall be based on the most recent stack test that has been approved by the Department.
- N. Calculate and record the total VOC emissions in tons per month that are controlled by the

control unit (EU-CO) and vented out the control unit stack of EP-CO for the Wood Dip-Dry Casement Sash (EU-63). The destruction efficiency to use for the catalytic oxidizer shall be based on the most recent stack test that has been approved by the Department.

- O. Total (add together) the recorded total VOC emissions of Item I, Item J, Item K, Item L, Item M, and Item N of this section on a rolling 12 month basis in tons.
- P. If the rolling, 12-month total of the VOC emissions in tons from Wood Dip-Dry DH Sash (EU-60), Wood Dip-Dry DS Casement Frame (EU-62), and Wood Dip-Dry Casement Sash (EU-63) exceeds 29.6 tons per 12-month rolling period, the permittee shall maintain the following daily records:
  - P1. The total tons of VOC emissions combined for Wood Dip-Dry DH Sash (EU-60), Wood Dip-Dry DS Casement Frame (EU-62), and Wood Dip-Dry Casement Sash (EU-63); and
  - P2. The rolling 365-day total tons of VOC emissions combined for Wood Dip-Dry DH Sash (EU-60), Wood Dip-Dry DS Casement Frame (EU-62), and Wood Dip-Dry Casement Sash (EU-63). Daily recordkeeping/calculations for VOC emissions combined for Wood Dip-Dry DH Sash (EU-60), Wood Dip-Dry DS Casement Frame (EU-62), and Wood Dip-Dry Casement Sash (EU-63) shall continue until the rolling 365-day total amount of VOC emissions drops below 27.6 tons for 180 consecutive days. At that time, rolling monthly calculation of VOC emissions will then begin and repeating of Item P of this section as necessary.
- Q. The permittee shall submit notifications as required by §63.4710; the permittee shall submit required reports in accordance with §63.4720.
- R. The permittee shall maintain the necessary records in accordance with §63.4730 and §63.4731.
- S. If using the Compliant Material Option to comply with the HAP limit, the permittee shall follow the requirements of §63.4740, §63.4741, and §63.4742.
- T. If using the Emission Rate without Add-on Control Option to comply with the HAP limit, the permittee shall follow the requirements of §63.4750, §63.4751, and §63.4752.

Authority for Requirement: Iowa DNR Construction Permits listed in Table 2

### **NSPS and NESHAP Applicability**

These emission units are subject to NESHAP Subpart A – General Provisions and Subpart QQQQ – National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products.

Authority for Requirement: Iowa DNR Construction Permits listed in Table 2

**Emission Point Characteristics**

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

**Table Wood Dip Dry Units-5**

	Stack Height (ft, from the ground)	Stack Opening (dia. inch)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement IDNR Construction Permit
EP-60	32	12	1,000	Ambient	Vertical Unobstructed	92-A-560-S10
EP-62	25	12	1,800	Ambient	Vertical Unobstructed	92-A-562-S9
EP-63	28	12	1,000	Ambient	Vertical Unobstructed	92-A-563-S10

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP-CO**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-CO

Emissions Control Equipment ID Number: CE-CO

Emissions Control Equipment Description: Catalytic Oxidizer

Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-CO

Emission Unit Description: Door Plant Wood Treatment System

Raw Material/Fuel: Natural Gas

Rated Capacity: 0.49 MMBtu/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: Iowa DNR Construction Permit 98-A-872-S10  
567 IAC 23.3(2) "d"

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

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

Emission Limit(s): 0.75 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 98-A-872-S10

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 98-A-872-S10  
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 39.4 ton/yr <sup>(2), (3), (4)</sup>

Authority for Requirement: Iowa DNR Construction Permit 98-A-872-S10

<sup>(2)</sup>Limit established for PSD purposes. The 39.4 tons per rolling 12-month total may be entirely consumed alone or in combination of by-pass stacks EP-58\*, EP-89\*, EP-168\* or EP-169 during by-pass operations; or a combination of EP-58\*, EP-89\*, EP-168\* or EP-169 by-pass stacks and EP-CO which controls EU-58\*, EU-89\*, EU-168\* and EU-169.

\*: Removed units.

<sup>(3)</sup>Limit established for PSD purposes. The 39.4 tons per rolling 12-month total may be entirely consumed alone by EP-96 by-pass stack during by-pass operations or a combination of EP-96 by-passes and EP-CO which controls EU-96.

<sup>(4)</sup>Limit established for PSD purposes. The 39.4 tons per rolling 12-month total may be entirely consumed alone or in combination of by-pass stacks EP-60, EP-62, or EP-63 during by-pass operations; or a combination of EP-60, EP-62, or EP-63 by-pass stacks and EP-CO which controls EU-60, EU-62, and EU-63.

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 50.0 ton/yr <sup>(5), (6)</sup>

Authority for Requirement: Iowa DNR Construction Permit 98-A-872-S10

<sup>(5)</sup>Limit established for PSD purposes. The 50.0 tons per rolling 12-month total may be entirely consumed alone by EP-59 by-pass stack during by-pass operations or a combination of EP-59 by-passes and EP-CO which controls EU-59.

<sup>(6)</sup>The combination of emissions being captured and vented from EU-58\*, EU-59, EU-60, EU-62, EU-63, EU-89\*, EU-96, EU-168\*, EU-169, EU-231 and vented out EP CO shall not exceed 50.0 tons per rolling 12-month total.

\*: Removed units.

Pollutant: Total HAPs

Emission Limit(s): 1.93 lb HAPs/gal Solids <sup>(7)</sup>

Authority for Requirement: Iowa DNR Construction Permit 98-A-872-S10  
40 CFR 63 Subpart QQQQ  
567 IAC 23.1(4) "cq"

<sup>(7)</sup>Organic HAP limit from Table 2 of Subpart QQQQ for existing affected sources in door, windows, and miscellaneous subcategory. Determined as a rolling 12-month emission rate according to the requirements in 40 CFR §63.4741, 40 CFR §63.4751, or 40 CFR §63.4761, as applicable.

This emission point and Catalytic Oxidizer is connected to the following emission units:

EP	EU	Emission Unit Description	Maximum Capacity
EP-59	EU-59	Wood Dip - Dry: DH Frame	400 parts per hour
EP-60	EU-60	Wood Dip – Dry: DH Sash	1,400 parts per hour
EP-62	EU-62	Wood Dip – Dry: DS Casement Frame	860 parts per hour
EP-63	EU-63	Wood Dip-Dry: Casement Sash	1,500 parts per hour
EP-96	EU-96	Wood Dip-Dry: Casement Sash	300 parts per hour
EP-169	EU-169	Wood Dip Dry: Door 3	480 parts per hour
EP-231	EU-231	Door Plant Wood Treatment	Conveyor speed of 41 feet per minute

### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. The temperature range of the inlet gas stream shall be maintained at a minimum of 552°F.
- B. The catalyst shall be inspected and maintained according to manufacturer's specifications.
- C. The catalytic oxidizer shall have a device to determine the number of hours the unit is operating.

#### **Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. The owner or operator shall keep hourly records of the inlet temperature to ensure proper performance.
- B. The owner or operator shall keep records of any maintenance on the catalyst.
- C. Record the number of hours the Wood Dip-Dry: Door 3 (EU-169) is operating on a daily basis.

- D. Record the number of hours the Wood Dip-Dry: Door 3 (EU-169) by-pass stack (EP-169) is open to the atmosphere on a daily basis.
- E. Calculate and record the total VOC emissions in tons per month that are emitted from bypass stack EP-169.
- F. Calculate and record the total VOC emissions in tons per month that are controlled by the control unit (EU-CO) and vented out the control unit stack of EP-CO for the Wood Dip-Dry: Door 3 (EU-169). The destruction efficiency to use for the catalytic oxidizer shall be based on the most recent stack test that has been approved by the Department.
- G. Total (add together) the recorded total VOC emissions of Item E and Item F of this section on a rolling 12 month basis in tons.
- H. If the rolling, 12-month total of the VOC emissions in tons from Wood Dip-Dry: Door 1 (EU-58\*), Wood Dip-Dry: Door 2 (EU-89\*), Wood Drying Box (EU-168\*) and Wood Dip-Dry: Door 3 (EU-169) exceeds 29.6 tons per 12-month rolling period, the permittee shall maintain the following daily records:
  - I. The total tons of VOC emissions combined for Wood Dip-Dry: Door 1 (EU-58\*), Wood Dip-Dry: Door 2 (EU-89\*), Wood Drying Box (EU-168\*) and Wood Dip-Dry: Door 3 (EU-169); and
  - J. The rolling 365-day total tons of VOC emissions combined for Wood Dip-Dry: Door 1 (EU-58\*), Wood Dip-Dry: Door 2 (EU-89\*), Wood Drying Box (EU-168\*) and Wood Dip-Dry: Door 3 (EU-169). Daily recordkeeping/calculations for VOC emissions combined for Wood Dip-Dry: Door 1 (EU-58\*), Wood Dip-Dry: Door 2 (EU-89\*), Wood Drying Box (EU-168\*) and Wood Dip-Dry: Door 3 (EU-169) shall continue until the rolling 365-day total amount of VOC emissions drops below 27.6 tons for 180 consecutive days. At that time, rolling monthly calculation of VOC emissions will then begin and repeating of Item L of this section as necessary.
- \*: Removed units.
- K. Record the number of hours the Wood Dip-Dry Casement Sash (EU-96) is operating on a daily basis.
- L. Record the number of hours the Wood Dip-Dry Casement Sash (EU-96) by-pass stack (EP-96) is open to the atmosphere on a daily basis.
- M. Calculate and record the total VOC emissions in tons per month that are emitted from bypass stack EP-96.
- N. Calculate and record the total VOC emissions in tons per month that are controlled by the control unit (EU-CO) and vented out the control unit stack of EP-CO for the Wood Dip-Dry Casement Sash (EU-96). The destruction efficiency to use for the catalytic oxidizer shall be based on the most recent stack test that has been approved by the Department.
- O. Total (add together) the recorded total VOC emissions of Item M and Item N of this section on a rolling 12 month basis in tons.
- P. If the rolling, 12-month total of the VOC emissions in tons from Wood Dip-Dry Casement Sash (EU-96) exceeds 29.6 tons per 12-month rolling period, the permittee shall maintain the following daily records:
  - Q. The total tons of VOC emissions combined for Wood Dip-Dry Casement Sash (EU-96);
  - R. The rolling 365-day total tons of VOC emissions combined for Wood Dip-Dry Casement Sash (EU-96). Daily recordkeeping/calculations for VOC emissions combined for Wood Dip-Dry Casement Sash (EU-96) shall continue until the rolling 365-day total amount of VOC emissions drops below 27.6 tons for 180 consecutive days. At that time, rolling monthly calculation of VOC emissions will then begin and repeating of Item P of this

section as necessary.

- S. Record the number of hours the Wood Dip-Dry DH Frame (EU-59) is operating on a daily basis.
- T. Record the number of hours the Wood Dip-Dry DH Frame (EU-59) by-pass stack (EP-59) is open to the atmosphere on a daily basis.
- U. Calculate and record the total VOC emissions in tons per month that are emitted from bypass stack EP-59.
- V. Calculate and record the total VOC emissions in tons per month that are controlled by the control unit (EU-CO) and vented out the control unit stack of EP-CO for the Wood Dip-Dry DH Frame (EU-59). The destruction efficiency to use for the catalytic oxidizer shall be based on the most recent stack test that has been approved by the Department.
- W. Total (add together) the recorded total VOC emissions of Item U and Item V of this section on a rolling 12 month basis in tons.
- X. If the rolling, 12-month total of the VOC emissions in tons from Wood Dip-Dry DH Frame (EU-59) exceeds 37.5 tons per 12-month rolling period, the permittee shall maintain the following daily records:
  - Y. The total tons of VOC emissions combined for Wood Dip-Dry DH Frame (EU-59); and
  - Z. The rolling 365-day total tons of VOC emissions combined for Wood Dip-Dry DH Frame (EU-59). Daily recordkeeping/calculations for VOC emissions combined for Wood Dip-Dry DH Frame (EU-59) shall continue until the rolling 365-day total amount of VOC emissions drops below 35.0 tons for 180 consecutive days. At that time, rolling monthly calculation of VOC emissions will then begin and repeating of Item X of this section as necessary.
- AA. Record the number of hours the Wood Dip-Dry DH Sash (EU-60) is operating on a daily basis.
- BB. Record the number of hours the Wood Dip-Dry DH Sash (EU-60) by-pass stack (EP-60) is open to the atmosphere on a daily basis.
- CC. Record the number of hours the Wood Dip-Dry DS Casement Frame (EU-62) is operating on a daily basis.
- DD. Record the number of hours the Wood Dip-Dry DS Casement Frame (EU-62) by-pass stack (EP-62) is open to the atmosphere on a daily basis.
- EE. Record the number of hours the Wood Dip-Dry Casement Sash (EU-63) is operating on a daily basis.
- FF. Record the number of hours the Wood Dip-Dry Casement Sash (EU-63) by-pass stack (EP-63) is open to the atmosphere on a daily basis.
- GG. Calculate and record the total VOC emissions in tons per month that are emitted from bypass stack EP-60.
- HH. Calculate and record the total VOC emissions in tons per month that are emitted from bypass stack EP-62.
- II. Calculate and record the total VOC emissions in tons per month that are emitted from bypass stack EP-63.
- JJ. Calculate and record the total VOC emissions in tons per month that are controlled by the control unit (EU-CO) and vented out the control unit stack of EP-CO for the Wood Dip-Dry DH Sash (EU-60). The destruction efficiency to use for the catalytic oxidizer shall be based on the most recent stack test that has been approved by the Department.
- KK. Calculate and record the total VOC emissions in tons per month that are controlled by

the control unit (EU-CO) and vented out the control unit stack of EP-CO for the Wood Dip-Dry DS Casement Frame (EU-62). The destruction efficiency to use for the catalytic oxidizer shall be based on the most recent stack test that has been approved by the Department.

- LL. Calculate and record the total VOC emissions in tons per month that are controlled by the control unit (EU-CO) and vented out the control unit stack of EP-CO for the Wood Dip-Dry Casement Sash (EU-63). The destruction efficiency to use for the catalytic oxidizer shall be based on the most recent stack test that has been approved by the Department.
- MM. Total (add together) the recorded total VOC emissions of Item GG, Item HH, Item II, Item JJ, Item KK, and Item LL of this section on a rolling 12 month basis in tons.
- NN. If the rolling, 12-month total of the VOC emissions in tons from Wood Dip-Dry DH Sash (EU-60), Wood Dip-Dry DS Casement Frame (EU-62), and Wood Dip-Dry Casement Sash (EU-63) exceeds 29.6 tons per 12-month rolling period, the permittee shall maintain the following daily records:
- OO. The total tons of VOC emissions combined for Wood Dip-Dry DH Sash (EU-60), Wood Dip-Dry DS Casement Frame (EU-62), and Wood Dip-Dry Casement Sash (EU-63); and
- PP. The rolling 365-day total tons of VOC emissions combined for Wood Dip-Dry DH Sash (EU-60), Wood Dip-Dry DS Casement Frame (EU-62), and Wood Dip-Dry Casement Sash (EU-63). Daily recordkeeping/calculations for VOC emissions combined for Wood Dip-Dry DH Sash (EU-60), Wood Dip-Dry DS Casement Frame (EU-62), and Wood Dip-Dry Casement Sash (EU-63) shall continue until the rolling 365-day total amount of VOC emissions drops below 27.6 tons for 180 consecutive days. At that time, rolling monthly calculation of VOC emissions will then begin and repeating of Item F of this section as necessary.
- QQ. The owner or operator shall record the number of hours the Catalytic Oxidizer (CE-CO1) is operating and combusting the VOC emissions from the 8 Wood Dip Tanks and Drying Box on a daily basis.
- RR. The owner or operator shall record the number of hours the Catalytic Oxidizer (CE-CO1) is not operating on a daily basis.
- SS. The owner or operator shall calculate and record the total VOC emissions in tons per month that are emitted from the Catalytic Oxidizer stack EP-CO. The destruction efficiency to use for the catalytic oxidizer shall be based on the most recent stack test that has been approved by the Department.
- TT. If the rolling, 12-month total of the VOC emissions in tons from the Catalytic Oxidizer stack EP-CO exceeds 37.5 tons per 12-month rolling period, the permittee shall maintain the following daily records:
- UU. The total tons of VOC emissions vented from the Catalytic Oxidizer stack EP-CO; and
- VV. The rolling 365-day total tons of VOC emissions from the Catalytic Oxidizer stack EP-CO shall continue until the rolling 365-day total amount of VOC emissions drops below 35.0 tons for 180 consecutive days. At that time, rolling monthly calculation of VOC emissions will then begin and repeating of Item C of this section as necessary.
- WW. The owner or operator shall submit notifications as required by §63.4710; the permittee shall submit required reports in accordance with §63.4720.
- XX. The owner or operator shall maintain the necessary records in accordance with §63.4730 and §63.4731.

YY. If using the Compliant Material Option to comply with the HAP limit, the owner or operator shall follow the requirements of §63.4740, §63.4741, and §63.4742.

ZZ. If using the Emission Rate without add-on control option to comply with the HAP limit, the owner or operator shall follow the requirements of §63.4750, §63.4751, and §63.4752.

Authority for Requirement: Iowa DNR Construction Permit 98-A-872-S10

**NSPS and NESHAP Applicability**

This emission point is subject to NESHAP Subpart A – General Provisions and Subpart QQQQ – National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products.

Authority for Requirement: Iowa DNR Construction Permit 98-A-872-S10

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 31

Stack Opening, (inches, dia.): 31

Exhaust Flow Rate (scfm): 7,000-15,000

Exhaust Temperature (°F): 250-500

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 98-A-872-S10

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

**Monitoring Requirements**

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

**Stack Testing:**

Pollutant – VOC and Organic HAPs

Test Method and Frequency – see the table below

<b>Pollutant</b>	<b>Initial</b>	<b>Subsequent</b>	<b>Methodology</b>	<b>Frequency</b>
VOC	Yes	Yes <sup>(1), (2)</sup>	Stack Test, Mass Balance	Rolling 12-month total
Organic HAP	Yes	Yes	NESHAP QQQQ	NA

<sup>(1)</sup>Once every 12 months, the facility shall submit a sample of the precious metal catalyst to the manufacturer for analysis. This sample shall be taken from the top 1/3 section of the catalyst bed (the area of the bed that is the most utilized). The results of the manufacturer's analysis shall determine:

- That the catalyst destruction efficiency is sufficient for the source to remain synthetic minor with regard to PSD.
- Whether a total or partial change of the catalyst bed is necessary for the source to remain synthetic minor for PSD.
- Whether an increase in bed temperature is necessary to remain the desired destruction efficiency for the source to remain synthetic minor for PSD.
- The facility shall submit a copy of the catalyst analysis to the Department in lieu of a stack test report.

<sup>(2)</sup>1/3 of the main catalyst bed was replaced during the annual scheduled outage in November 2011. The next scheduled outage will occur in either September or November 2012. A catalyst bed analysis shall be completed within this next scheduled outage and once ever 12months thereafter as detailed in footnote 1 above.

Authority for Requirement: Iowa DNR Construction Permit 98-A-872-S10

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

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

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

## **Catalytic Oxidizer Compliance Assurance Monitoring Plan**

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Facility :	Pella Corporation – Pella Division
EIQ Number:	92-4047
Emission Point:	EP-CO
Emission Unit:	EU-CO
Control Equipment:	CE-CO, Catalytic Oxidizer
Emission Limit:	39.4 ton/yr* and 50.0 ton/yr* VOC

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\*: see footnotes in page 104 and page 105

### **1. APPLICABILITY**

- 1.1. Control Technology: Catalytic Oxidizer
- 1.2. Pollutants: Volatile organic compounds (VOC's)
- 1.3. Process/Emissions Unit: Wood Dip/Dry Units
- 1.4. Authority for Requirement: Iowa DNR Construction Permit: 98-A-872-S10
- 1.5. Emission Limits: Volatile Organic Compounds limited to 50 Tons/yr

### **2. MONITORING APPROACH DESCRIPTION**

- 2.1. Parameters to be Monitored: Catalyst inlet gas stream temperatures between 500° F and 1000° F.
- 2.2. Rationale for Monitoring Approach
  - Catalyst inlet gas temperature: Allows determination of temperature of gas flowing into catalyst bed to ensure bed is maintained within the design temperature range to ensure 95% destruction efficiency.
  - The number of hours the by-pass stacks (EP-58\*, EP-59, EP-60, EP-62, EP-63, EP-96, EP-169 and EP-231) are open to the atmosphere on a daily basis. \*: Removed units.
- 2.3. Monitoring Location
  - Inlet gas temperature: Inlet temperature probe is immediately prior to the air stream entering the catalytic bed.
- 2.4. Analytical Devices Required
  - Inlet temperatures: Thermocouples as appropriate for specific gas stream.
- 2.5. Data Acquisition and Measurement System Operation
  - Frequency of measurement: Recorded continuously on strip chart or data acquisition system. Checked daily for temperatures outside operational parameters.
  - Reporting units: Degrees Fahrenheit (°F)
  - Recording process: Operators take readings and manually log data, or recorded automatically on strip chart or digital data acquisition system.
- 2.6. Data Requirements
  - Historical plant records on catalyst inlet gas temperatures.
- 2.7. Specific QA/QC Procedures:
  - Calibrate, maintain and operate instrumentation using procedures that take into account manufacturer's specifications.

- A stack test was conducted on the inlet and outlet to verifying the 95% destruction efficiency. This stack test was conducted March 15, 2005.
- The oxidizer shall be operated and maintained according to the manufacturer's recommendations.
- Verify Chart recorder calibration annually.

### **3. COMMENTS**

- 3.1. Data Collection Frequency: Inlet temperature shall be measured continuously during the hours of operation of the oxidizer.

## Emission Point ID Number: Wood Dust System

**Table Wood Dust System-1**

EP	EU	Emission Unit Description	Raw Material	Rated Capacity, cft/hr
EP-19	EU-19	Wood Dust System	Wood Dust	1000.0
EP-21	EU-21	Wood Dust System	Wood Dust	1000.0
EP-27	EU-27	Wood Dust System	Wood Dust	1000.0
EP-28	EU-28	Wood Dust System	Wood Dust	1000.0
EP-30	EU-30	Wood Dust System	Wood Dust	1000.0
EP-54	EU-54	Wood Dust System	Wood Dust	1000.0
EP-55	EU-55	Wood Dust System	Wood Dust	1000.0
EP-69	EU-69	Wood Dust System	Wood Dust	1000.0
EP-71	EU-71	Wood Dust System	Wood Dust	1000.0
EP-72	EU-72	Wood Dust System	Wood Dust	1000.0
EP-86	EU-86	Wood Dust System	Wood Dust	1000.0
EP-88	EU-88	Wood Dust System	Wood Dust	1000.0
EP-102	EU-102	Wood Dust System	Wood Dust	1000.0

**Table Wood Dust System-2**

EP	EU	Emission Unit Description	CE	CEM	IDNR Construction Permit
EP-19	EU-19	Wood Dust System	CE-19/Baghouse &Cyclone	None	79-A-035-S4
EP-21	EU-21	Wood Dust System	CE-21/Baghouse	None	92-A-579-S3
EP-27	EU-27	Wood Dust System	CE-27/Baghouse	None	92-A-582-S3
EP-28	EU-28	Wood Dust System	CE-28/Baghouse	None	92-A-583-S4
EP-30	EU-30	Wood Dust System	CE-30/Baghouse	None	92-A-584-S4
EP-54	EU-54	Wood Dust System	CE-54/Baghouse	None	92-A-585-S3
EP-55	EU-55	Wood Dust System	CE-55/Baghouse	None	92-A-586-S3
EP-69	EU-69	Wood Dust System	CE-69/Baghouse	None	98-A-386-S4
EP-71	EU-71	Wood Dust System	CE-71/Baghouse	None	10-A-335
EP-72	EU-72	Wood Dust System	CE-72/Baghouse	None	None
EP-86	EU-86	Wood Dust System	CE-86/Baghouse &Cyclone	None	99-A-189-S3
EP-88	EU-88	Wood Dust System	CE-88/Baghouse &Cyclone	None	00-A-017-S4
EP-102	EU-102	Wood Dust System	CE-102A, CE-102B Baghouse &Cyclone	None	01-A-1234-S3

### Applicable Requirements

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

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

**Table Wood Dust System-3**

EP	EU	Opacity	PM10	PM	PM
EP-19	EU-19	40% <sup>(1)</sup>	0.84 lb/hr	--	0.01 gr/dscf
EP-21	EU-21	40% <sup>(1)</sup>	0.72 lb/hr	3.0 lb/hr	0.1 gr/dscf
EP-27	EU-27	40% <sup>(1)</sup>	0.32 lb/hr	2.6 lb/hr	0.1 gr/dscf
EP-28	EU-28	40% <sup>(1)</sup>	0.32 lb/hr	3.05 lb/hr	0.1 gr/dscf
EP-30	EU-30	40% <sup>(1)</sup>	0.51 lb/hr	1.72 lb/hr	0.1 gr/dscf

EP	EU	Opacity	PM10	PM	PM
EP-54	EU-54	40% <sup>(1)</sup>	0.72 lb/hr	3.2 lb/hr	0.1 gr/dscf
EP-55	EU-55	40% <sup>(1)</sup>	0.52 lb/hr	3.6 lb/hr	0.1 gr/dscf
EP-69	EU-69	40% <sup>(1)</sup>	1.26 lb/hr	5.0 lb/hr	0.1 gr/dscf
EP-71	EU-71	40%	0.96 lb/hr	1.56 lb/hr	0.1 gr/dscf
EP-72	EU-72	40%	--	--	0.1 gr/dscf
EP-86	EU-86	40% <sup>(1)</sup>	0.83 lb/hr	11.14 lb/hr	0.1 gr/dscf
EP-88	EU-88	40% <sup>(1)</sup>	1.08 lb/hr	5.57 lb/hr	0.1 gr/dscf
EP-102	EU-102	40% <sup>(1)</sup>	2.33 lb/hr	5.57 lb/hr	0.1 gr/dscf

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

**Table Wood Dust System-4**

Pollutant	Emission Limits	Authority of Requirement
Opacity	40%	IDNR construction permits listed in Table 2 567 IAC 23.3(2) "d"
PM10	lb/hr limits in Table 3	IDNR construction permits listed in Table 2
PM	lb/hr limits in Table 3	IDNR construction permits listed in Table 2
PM	0.01 gr/dscf	IDNR construction permits listed in Table 2 567 IAC 23.3(2) "a"
PM	0.1 gr/dscf	IDNR construction permits listed in Table 2 567 IAC 23.3(2) "a"

**Operational Limits & Requirements**

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

Operational limits are not required for these units at this time.

**Emission Point Characteristics**

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

**Table Wood Dust System-5**

	Stack Height (ft, from the ground)	Stack Opening (dia. inch)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement IDNR Construction Permit
EP-19	35	48×48	54,700	Ambient	Horizontal	79-A-035-S4
EP-21	24	48×48	35,000	Ambient	Horizontal	92-A-579-S3
EP-27	47	48×48	50,200	Ambient	Horizontal	92-A-582-S3
EP-28	38	53	40,806	70	Horizontal	92-A-583-S4
EP-30	47	56	49,500	70	Vertical	92-A-584-S4
EP-54	29	50	48,043	70	Horizontal	92-A-585-S3
EP-55	38	54	64,576	70	Horizontal	92-A-586-S3
EP-69	47	54×63.5	55,000	Ambient	Horizontal	98-A-386-S4
EP-71	47	42×48	45,000	Ambient	Horizontal	10-A-335
EP-72	NA	NA	NA	NA	NA	None

	Stack Height (ft, from the ground)	Stack Opening (dia. inch)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement IDNR Construction Permit
EP-86	47	54	68,000	Ambient	Horizontal	99-A-189-S3
EP-88	40	60	61,200	Ambient	Vertical	00-A-017-S4
EP-102	30	54	68,000	Ambient	Horizontal	01-A-1234-S3

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

**Monitoring Requirements**

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

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

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

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

**Baghouse Agency Operation & Maintenance Plan**

The key element of the material outlined below is the facilities willingness to use no visible emissions as an action level for taking corrective measures. If this had not been the case, further monitoring techniques may be requested. Examples of monitoring techniques which are used to evaluate baghouse performance may be found in the compilation named “Baghouse Periodic Monitoring Literature Review” (File Name bag\_lit.doc). This document is a compilation of guidance from APTI training courses and other sources on ways to monitor baghouse performance.

The following baghouse parameters should be considered by the permit reviewer when determining what is monitored and the frequency.

**Baghouse Parameters**

Baghouse type:  Pulse Jet    Reverse Air    Shaker

Material handled: Wood

Moisture problems possible:  Yes    No

Material corrosive:  Yes    No

If yes, are acid resistant bags in use:  Yes    No

Operating temperature (°F): Ambient

## **Monitoring Guidelines**

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

### **General**

Periodic Monitoring is not required during periods of time greater than one day in which the source does not operate.

### **Weekly**

- Visible emissions shall be observed on a weekly basis to ensure no visible emissions occur during the material handling operation of the unit. If visible emissions are observed this would be an excursion not a violation, and corrective action will be taken as soon as possible, but no later than 8 hours. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>40 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2 hour intervals throughout the day. If unsuccessful that day due to weather, an observation shall be made the following day.
- Check and document the baghouse pressure drop. If the pressure drop falls out of the normal operating range, specified by the manufacturer, corrective action will be taken within 8 hours to return the pressure drop to normal.

Maintain a written record of the observation and any action resulting from the inspection.

### **Monthly**

- Check the cleaning sequence of the baghouse.
- Pulse jet baghouse - check the air delivery system
- Check the hopper functions and performance.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Maintain a written record of the inspection and any action resulting from the inspection.

### **Quarterly**

- Thoroughly inspect bags for leaks and wear. (Look for obvious holes or tears in the bags.)

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Bag replacement should be documented by identifying the date, time and location of the bag in relationship to the other bags. The location should be identified on an overhead drawing of the bag layout in the baghouse. Maintain a written record of the inspection and any action resulting from the inspection.

### **Semiannual**

- Inspect every 6 months all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours. Maintain a written record of the inspection and any action resulting from the inspection.

### **Record Keeping and Reporting**

Maintenance and inspection records will be kept for five years and available upon request.

### **Quality Control**

- The filter equipment will be operated and maintained according to the manufacturer's recommendations.
- An adequate inventory of spare parts shall be kept.

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: EP-7**

Associated Equipment

Associated Emission Unit ID Numbers: EU-7  
Emissions Control Equipment ID Number: None  
Emissions Control Equipment Description: NA  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-7  
Emission Unit Description: Wood Treating Stack/Vacuum Stack  
Raw Material/Fuel: Wood Preserves  
Rated Capacity: 25.84 gal/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 are not required at this time.

**Operational Limits & Requirements**

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

Operational limits are not required at this time.

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP-39**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-39  
Emissions Control Equipment ID Number: None  
Emissions Control Equipment Description: NA  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-39  
Emission Unit Description: Hardware Batch Drying Oven  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 0.53 MMBtu/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: Iowa DNR Construction Permit 92-A-587-S4  
567 IAC 23.3(2) "d"

<sup>(1)</sup>If visible emissions are observed other than start-up, shutdown or malfunction, the owner/operator is required to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

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

Emission Limit(s): 0.005 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 92-A-587-S4

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 92-A-587-S4  
567 IAC 23.3(2) "a"

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

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

Operational limits are not required at this time.

**NSPS and NESHAP Applicability**

This emission unit is subject to NESHAP Subpart M – National Emission Standard for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products.

This emission unit is subject to National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters [40 CFR Part 63 Subpart DDDDD].

Authority for Requirement: Iowa DNR Construction Permit 92-A-587-S4

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 50

Stack Opening, (inches, dia.): 12

Exhaust Flow Rate (scfm): 5,500

Exhaust Temperature (°F): 500

Discharge Style: Vertical Obstructed

Authority for Requirement: Iowa DNR Construction Permit 92-A-587-S4

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP-53**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-53B  
Emissions Control Equipment ID Number: CE-53  
Emissions Control Equipment Description: Wet Scrubber  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-53B  
Emission Unit Description: Sludge Dryer  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 0.42 MMBtu/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: Iowa DNR Construction Permit 90-A-156-S1  
567 IAC 23.3(2) "d"

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

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

Emission Limit(s): 0.15 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 90-A-156-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.015 lb/hr; 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 90-A-156-S1  
567 IAC 23.3(2) "a"

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

Emission Limit(s): 500 ppmv

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

Pollutant: Mercury (Hg)

Emission Limit(s): 7.1 lb/24 hr

Authority for Requirement: Iowa DNR Construction Permit 90-A-156-S1  
40 CFR Part 61 Subpart E  
567 IAC 23.1(3) "d"

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

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

Operational limits are not required at this time.

**NSPS and NESHAP Applicability**

This emission unit is subject to 40 CFR Part 61 Subpart E – National Emission Standards for Mercury

Authority for Requirement: Iowa DNR Construction Permit 90-A-156-S1

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 46

Stack Opening, (inches, dia.): 6

Exhaust Flow Rate (scfm): 675

Exhaust Temperature (°F): 500

Discharge Style: Vertical Obstructed

Authority for Requirement: Iowa DNR Construction Permit 90-A-156-S1

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

**Monitoring Requirements**

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP-76**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-76  
Emissions Control Equipment ID Number: None  
Emissions Control Equipment Description: NA  
Continuous Emissions Monitors ID Numbers: None

---

Emission Unit vented through this Emission Point: EU-76  
Emission Unit Description: Hog-Wood Bin  
Raw Material/Fuel: Sawdust  
Rated Capacity: 1,200 cf/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: Iowa DNR Construction Permit 01-A-995-S1  
567 IAC 23.3(2) "d"

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

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

Emission Limit(s): 3.0 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 01-A-995-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 01-A-995-S1  
567 IAC 23.3(2) "a"

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

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

Operational limits are not required at this time.

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 24

Stack Opening, (inches, dia.): Vents Internally through Screw Conveyor

Exhaust Flow Rate (scfm): Vents Internally through Screw Conveyor

Exhaust Temperature (°F): Ambient

Discharge Style: Displacement Air /Breathing Loss

Authority for Requirement: Iowa DNR Construction Permit 01-A-995-S1

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP-77**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-77  
Emissions Control Equipment ID Number: None  
Emissions Control Equipment Description: NA  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-77  
Emission Unit Description: Saw Dust Silo – Tech Tank  
Raw Material/Fuel: Saw Dust  
Rated Capacity: 1000.0 ft/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: Iowa DNR Construction Permit 01-A-996-S1  
567 IAC 23.3(2) "d"

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

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

Emission Limit(s): 3.0 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 01-A-996-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 01-A-996-S1  
567 IAC 23.3(2) "a"

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

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

Operational limits are not required at this time.

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 72  
Stack Opening, (inches, dia.): Vents Internally through Screw Conveyor  
Exhaust Flow Rate (scfm): Displacement Air / Breathing Loss  
Exhaust Temperature (°F): Ambient  
Discharge Style: Vents Internally through Screw Conveyor  
Authority for Requirement: Iowa DNR Construction Permit 01-A-996-S1

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP-93**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-93  
Emissions Control Equipment ID Number: CE-93  
Emissions Control Equipment Description: Dry Filter  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-93  
Emission Unit Description: Model Shop Paint Spray Booth  
Raw Material/Fuel: Paint, Vanish  
Rated Capacity: 7.5 gal/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: Iowa DNR Construction Permit 00-A-541  
567 IAC 23.3(2) "d"

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

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

Emission Limit(s): 0.72 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 00-A-541

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 00-A-541  
567 IAC 23.4(13)

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

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

#### **Operating Limits**

- A. Only one (1) paint spray gun with the maximum spray capacity equal to or less than 16 fl oz/min shall be operated in this booth at one time.
- B. The maximum VOC content of any painting materials used in this booth is limited to no more than 8.00 lb/gal.
- C. All painting materials used in this booth are limited to 2400 gallons per 12-month rolling period. Material is defined as paints, solvents, lacquers, and any other liquids used for surface coating products at the facility.

- D. The maximum solid content of any painting material used in this booth is limited to no more than 10.00 pounds per gallon.

**Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. Record VOCs and solids content in lb/gal for each painting material used in the booth.
- B. Record monthly usage in gallons/month for each painting material.
- C. During first 1 month of operation, determine cumulative painting material usage each month of operation.
- D. After the first 11 months of operation, determine the amount of each painting material used in any 12-month rolling period.
- E. Record maintenance or replacement of filters.

Authority for Requirement: Iowa DNR Construction Permit 00-A-541

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 31

Stack Opening, (inches, dia.): 27

Exhaust Flow Rate (scfm): 8,450

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 00-A-541

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

**Monitoring Requirements**

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP-107**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-107  
Emissions Control Equipment ID Number: CE-107  
Emissions Control Equipment Description: Dry Filter  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-107  
Emission Unit Description: Paint Booth, Clad Frame  
Raw Material/Fuel: Paint, Solvent  
Rated Capacity: 21.0 gal/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: Iowa DNR Construction Permit 02-A-085-S2  
567 IAC 23.3(2) "d"

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

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

Emission Limit(s): 0.44 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 02-A-085-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 02-A-085-S2  
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 13.5 ton/yr

Authority for Requirement: Iowa DNR Construction Permit 02-A-085-S2

Pollutant: Single HAP

Emission Limit(s): 8.4 ton/yr

Authority for Requirement: Iowa DNR Construction Permit 02-A-085-S2

### **Operational Limits & Requirements**

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

#### **Operating Limits**

- A. Coating usage shall be limited to a maximum of 3,600 gallons per twelve month rolling period. Coatings used shall have a maximum VOC content of 5.0 lb VOC/gal as applied, and a maximum single HAP content of 3.0 lb/gal as applied.
- B. Solvent usage shall be limited to a maximum of 1,200 gallons per twelve month rolling period. Solvents used shall have a maximum VOC content of 7.5 lb VOC/gal and a maximum single HAP content of 5.0 lb/gal.
- C. The control equipment shall be inspected and maintained according to manufacturer's recommendations.

#### **Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. The owner or operator shall keep records of the amount of both coatings and material used, and update the twelve month rolling total in both categories monthly.
- B. Material Safety Data Sheets (MSDS), showing both VOC and HAP content, for all materials used in this booth shall be kept.
- C. The owner or operator shall keep records of control equipment inspections and maintenance.

Authority for Requirement: Iowa DNR Construction Permit 02-A-085-S2

#### **NSPS and NESHAP Applicability**

This emission unit is subject to NESHAP Subpart A – General Provisions and Subpart QQQQ – National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products.

Authority for Requirement: Iowa DNR Construction Permit 02-A-085-S2

#### **Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 39.5

Stack Opening, (inches, dia.): 25

Exhaust Flow Rate (scfm): 26,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 02-A-085-S2

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

**Agency Operation & Maintenance Plan for Paint Booth EP-107**

**Weekly**

- Inspect the paint booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

**Record Keeping and Reporting**

- Maintenance and inspection records will be kept for five years and available upon request.

**Quality Control**

- The filter equipment will be operated and maintained according to the manufacturer's recommendations.

## **Emission Point ID Number: EP-112**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-112  
Emissions Control Equipment ID Number: None  
Emissions Control Equipment Description: NA  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-112  
Emission Unit Description: Solvent Evaporation - Wood Treating and Drying  
Raw Material/Fuel: Wood Preserves, Mineral Spirits  
Rated Capacity: 2.85 gal/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: Iowa DNR Construction Permit 03-A-333  
567 IAC 23.3(2) "d"

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

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

Emission Limit(s): 1.55 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 03-A-333

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.55 lb/hr; 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 03-A-333  
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 13.0 ton/yr <sup>(2)</sup>

Authority for Requirement: Iowa DNR Construction Permit 03-A-333

<sup>(2)</sup>Requested VOC limit. Limit based on 4,000 gal/yr usage and 6.5 lb/gal maximum VOC content.

## **Operational Limits & Requirements**

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

### **Operating Limits**

- A. The maximum VOC content of any preservative or mineral spirits added to the Service Parts Wood Dip /Dry (EU-112) shall not exceed 6.50 pounds per gallon.
- B. The maximum amount preservative and mineral spirits to be used is 4000 gallons per rolling 12-month period.

### **Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. Record the VOC content of any preservative or mineral spirits added to the Service Parts Wood Dip /Dry (EU-112) in pounds per gallon.
- B. Record the amount of preservative and mineral spirits added to the Service Parts Wood Dip /Dry (EU-112) in gallons on a rolling 12-month basis
- C. Maintain a record of the maintenance on the Service Parts Wood Dip /Dry (EU-112) according to manufacturer's specifications.

Authority for Requirement: Iowa DNR Construction Permit 03-A-333

### **NSPS and NESHAP Applicability**

"This emission units shall comply with all applicable requirements from 40 CFR Part 63 Subpart QQQQ for Surface Coating of Wood Building Products"

According to §63.4681 (a) and (b), this emission unit seems to be an affected unit under NESHAP QQQQ.

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

### **Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 33

Stack Opening, (inches, dia.): 12

Exhaust Flow Rate (scfm): 1,800

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 03-A-333

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP-115**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-115  
Emissions Control Equipment ID Number: None  
Emissions Control Equipment Description: NA  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-115  
Emission Unit Description: Emergency Generator  
Raw Material/Fuel: Diesel Fuel  
Rated Capacity: 1.18 MMBtu/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: Iowa DNR Construction Permit 04-A-1038

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.02 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 04-A-1038

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

Emission Limit(s): 14.32 lb/hr; 3.58 ton/yr

Authority for Requirement: Iowa DNR Construction Permit 04-A-1038

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

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

#### **Operating Limits**

- A. The engine is permitted to burn diesel fuel oil (No. 1 or No. 2).
- B. The sulfur content of the fuel oil burned shall not exceed 0.5 percent by weight.
- C. The engine shall not operate more than 500 hours in any rolling 12-month period.

**Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. The permittee shall perform an analysis and shall maintain records on the sulfur content of each shipment of oil received. Alternatively, the permittee shall have the oil supplier provide analyses on the sulfur content of the oil received.
- B. The permittee shall keep the following monthly records:
  - B1. the number of hours the engine operated; and
  - B2. the rolling, 12-month total of the number of hours the engine operated.

Authority for Requirement: Iowa DNR Construction Permit 04-A-1038

**NSPS and NESHAP Applicability**

This emission unit is subject to National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines [40 CFR Part 63 Subpart ZZZZ].

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 18.5

Stack Opening, (inches, dia.): 8

Exhaust Flow Rate (scfm): 952

Exhaust Temperature (°F): 860

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 04-A-1038

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP-117**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-117  
Emissions Control Equipment ID Number: None  
Emissions Control Equipment Description: NA  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-117  
Emission Unit Description: Welding Station  
Raw Material/Fuel: Gas Metal Arc Welding  
Rated Capacity: 10.4 lb/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

Authority for Requirement: Iowa DNR Construction Permit 05-A-629-S1  
567 IAC 23.3(2) "d"

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

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

Emission Limit(s): 1.0 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 05-A-629-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.0 lb/hr; 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 05-A-629-S1  
567 IAC 23.3(2) "a"

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

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

#### **Operating Limits**

- A. The facility is limited to use no more than 100,000 pounds of any combination of welding wire, rod or other welding material per rolling 12-month period for the welding exhaust.
- B. The facility may operate up to four (4) welders in the welding area.
- C. Each of the four (4) welders in the welding exhaust area are limited to not having a production rate for welding greater than 2.6 pounds per hour individually or a total combination of 10.4 pounds per hour of any combination of welding wire, rod or other welding material per 12-month rolling period.

**Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. The facility shall record on a monthly basis the amount of welding wire, rod or other material used in the welding exhaust area.
- B. The facility shall maintain a rolling 12-month total for the amount of welding wire, rod or other welding material used in the welding exhaust area.
- C. The facility shall keep on file the manufacturer's rating for each of the welders in the welding exhaust area to verify the maximum capacity of the welding unit.

Authority for Requirement: Iowa DNR Construction Permit 05-A-629-S1

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 36

Stack Opening, (inches, dia.): 42

Exhaust Flow Rate (scfm): 15,000

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 05-A-629-S1

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP-222**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-222  
Emissions Control Equipment ID Number: None  
Emissions Control Equipment Description: NA  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-222  
Emission Unit Description: Paint Hook Oven  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 0.875 MMBtu/hr

### Applicable Requirements

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

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

Pollutant: Opacity

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

Authority for Requirement: Iowa DNR Construction Permit 10-A-535  
567 IAC 23.3(2) "d"

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

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

Emission Limit(s): 0.2 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 10-A-535

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.2 lb/hr; 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 10-A-535  
567 IAC 23.3(2) "a"

### Operational Limits & Requirements

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

#### **Operating Limits**

- A. The only fuel utilized in this unit shall be natural gas.
- B. The quantity of paint incinerated in this system shall not exceed 24 pound per batch.
- C. Equipment allowed to be burned off in this unit shall be limited to paint hangers.

**Reporting and Recordkeeping**

*All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.*

- A. The owner or operator shall maintain a record of the type of fuel burned in this unit.
- B. The owner or operator shall maintain a record of the amount of paint destroyed in this unit. One day per calendar month, each load put into the unit shall be weighed before and after burn-off to determine compliance with the 24 pound per batch burn-off limit in Section 14.0 of this permit.

Authority for Requirement: Iowa DNR Construction Permit 10-A-535

**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 32

Stack Opening, (inches, dia.): 18

Exhaust Flow Rate (scfm): 544

Exhaust Temperature (°F): 1,000

Discharge Style: Horizontal

Authority for Requirement: Iowa DNR Construction Permit 10-A-535

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

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP-51**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-51  
Emissions Control Equipment ID Number: CE-51  
Emissions Control Equipment Description: Baghouse  
Continuous Emissions Monitors ID Numbers: None

---

Emission Unit vented through this Emission Point: EU-51  
Emission Unit Description: Surface Metal Grinding  
Raw Material/Fuel: Metal  
Rated Capacity: 12.8 lb/hr

### **Applicable Requirements**

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

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

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

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.05 gr/dscf  
Authority for Requirement: Iowa DNR Construction Permit 88-A-209  
567 IAC 23.4(6)

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

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

Operational limits are not required at this time.

#### **Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 12  
Stack Opening, (inches, dia.): 5  
Exhaust Flow Rate (scfm): 875  
Exhaust Temperature (°F): 70  
Discharge Style: Indoor Vent  
Authority for Requirement: Iowa DNR Construction Permit 88-A-209

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

**Monitoring Requirements**

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

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: EP-Fugitive1**

Associated Equipment

Associated Emission Unit ID Numbers: EU-FUG1  
Emissions Control Equipment ID Number: None  
Emissions Control Equipment Description: NA  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-FUG1  
Emission Unit Description: Fugitive from Solvent Parts Washer  
Raw Material/Fuel: Sealant  
Rated Capacity: 0.034 gal/hr

**Applicable Requirements**

Emission limits and operational limits are not required at this time.

**Monitoring Requirements**

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

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

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: EP-Fugitive2**

Associated Equipment

Associated Emission Unit ID Numbers: EU-FUG2  
Emissions Control Equipment ID Number: None  
Emissions Control Equipment Description: NA  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-FUG2  
Emission Unit Description: Sealant Application Fugitive Emissions  
Raw Material/Fuel: Sealants, Adhesives& Like Chemicals  
Rated Capacity: 90.9 lb/hr

**Applicable Requirements**

Emission limits and operational limits are not required at this time.

**Monitoring Requirements**

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

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

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: EP-Fugitive3**

Associated Equipment

Associated Emission Unit ID Numbers: EU-FUG3  
Emissions Control Equipment ID Number: None  
Emissions Control Equipment Description: NA  
Continuous Emissions Monitors ID Numbers: None

---

Emission Unit vented through this Emission Point: EU-FUG3  
Emission Unit Description: Fugitive from Heated Make-up Air  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 0.0095 MMCF/hr

**Applicable Requirements**

Emission limits and operational limits are not required at this time.

**Monitoring Requirements**

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

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

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: EP-A3F**

Associated Equipment

Associated Emission Unit ID Numbers: EU-71F  
Emissions Control Equipment ID Number: None  
Emissions Control Equipment Description: NA  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-71F  
Emission Unit Description: Internal Fugitive from Woodworking Operation  
Raw Material/Fuel: Fugitive Dust  
Rated Capacity: 8760 hr/hr

**Applicable Requirements**

Emission limits and operational limits are not required at this time.

**Monitoring Requirements**

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

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

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: EP-A2F**

Associated Equipment

Associated Emission Unit ID Numbers: EU-72F  
Emissions Control Equipment ID Number: None  
Emissions Control Equipment Description: NA  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: EU-72F  
Emission Unit Description: Internal Fugitive from Woodworking Operation  
Raw Material/Fuel: Fugitive Dust  
Rated Capacity: 0 hr/hr

**Applicable Requirements**

Emission limits and operational limits are not required at this time.

**Monitoring Requirements**

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

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

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: INSIG.-3**

Associated Equipment

Associated Emission Unit ID Numbers: INSIG.-3  
Emissions Control Equipment ID Number: None  
Emissions Control Equipment Description: NA  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: INSIG.-3  
Emission Unit Description: Emergency Generator  
Raw Material/Fuel: Diesel  
Rated Capacity: 397 hp

**Applicable Requirements**

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

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

Emission limits are not required at this time.

**Operational Limits & Requirements**

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

**NSPS and NESHAP Applicability**

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

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ

**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: INSIG.-4**

Associated Equipment

Associated Emission Unit ID Numbers: INSIG.-4  
Emissions Control Equipment ID Number: None  
Emissions Control Equipment Description: NA  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: INSIG.-4  
Emission Unit Description: Emergency Fire Pump  
Raw Material/Fuel: Diesel  
Rated Capacity: 75 hp

**Applicable Requirements**

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

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

Emission limits are not required at this time.

**Operational Limits & Requirements**

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

**NSPS and NESHAP Applicability**

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

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ

**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: INSIG.-12**

Associated Equipment

Associated Emission Unit ID Numbers: INSIG.-12  
Emissions Control Equipment ID Number: None  
Emissions Control Equipment Description: NA  
Continuous Emissions Monitors ID Numbers: None

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Emission Unit vented through this Emission Point: INSIG.-12  
Emission Unit Description: Emergency Generator  
Raw Material/Fuel: Diesel  
Rated Capacity: 462 hp

**Applicable Requirements**

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

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

Emission limits are not required at this time.

**Operational Limits & Requirements**

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

**NSPS and NESHAP Applicability**

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

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ

**Monitoring Requirements**

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## IV. General Conditions

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

### G1. Duty to Comply

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

### G2. Permit Expiration

1. Except as provided in 567 IAC 22.104, the expiration of this permit terminates the permittee's right to operate unless a timely and complete application has been submitted for renewal. Any testing required for renewal shall be completed before the application is submitted. *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 present or mail the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Windsor Heights, Iowa 50324, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to EPA Region VII, Attention: Chief of Air Permits, 11201 Renner Blvd., Lenexa, KS. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

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

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

#### **G4. Annual Compliance Certification**

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. *567 IAC 22.108 (15)"e"*

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

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

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

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

6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

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

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

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

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

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

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

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

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

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

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
  - a. The date, place and time of sampling or measurements
  - b. The date the analyses were performed.
  - c. The company or entity that performed the analyses.
  - d. The analytical techniques or methods used.
  - e. The results of such analyses; and
  - f. The operating conditions as existing at the time of sampling or measurement.

- g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
- 2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
- 3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
  - a. Comply with all terms and conditions of this permit specific to each alternative scenario.
  - b. Maintain a log at the permitted facility of the scenario under which it is operating.
  - c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

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

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

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

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

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

**G13. Hazardous Release**

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

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

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

### **2. Excess Emissions Reporting**

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

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

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

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)*

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

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

#### **G15. Permit Deviation Reporting Requirements**

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

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

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

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

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
  - a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
  - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
  - c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
  - d. The changes are not subject to any requirement under Title IV of the Act.
  - e. The changes comply with all applicable requirements.
  - f. For such a change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
    - i. A brief description of the change within the permitted facility,
    - ii. The date on which the change will occur,
    - iii. Any change in emission as a result of that change,
    - iv. The pollutants emitted subject to the emissions trade
    - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
    - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions caPas specified in and in compliance with the Title V permit; and
    - vii. Any permit term or condition no longer applicable as a result of the change.
2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*
3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*
4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*
5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

## **G18. Duty to Modify a Title V Permit**

### **1. Administrative Amendment.**

- a. An administrative permit amendment is a permit revision that is required to do any of the following:
  - i. Correct typographical errors
  - ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
  - iii. Require more frequent monitoring or reporting by the permittee; or
  - iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.
- b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.
- c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

### **2. Minor Permit Modification.**

- a. Minor permit modification procedures may be used only for those permit modifications that do any of the following:
  - i. Do not violate any applicable requirements
  - ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit.
  - iii. Do not require or change a case by case determination of an emission limitation or other standard, or increment analysis.
  - iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act.;
  - v. Are not modifications under any provision of Title I of the Act; and
  - vi. Are not required to be processed as significant modification.
- b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
  - i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs.
  - ii. The permittee's suggested draft permit
  - iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of a minor permit modification procedures and a request that such procedures be used; and
  - iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).

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

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

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

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

#### **G20. Asbestos**

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

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

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

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

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

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

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

## **G24. Permit Reopenings**

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*
2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.
  - a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
  - b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.
  - c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a"*, *567 IAC 22.108(17)"b"*
3. A permit shall be reopened and revised under any of the following circumstances:
  - a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;
  - b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
  - c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
  - d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
  - e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*
4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

## **G25. Permit Shield**

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

## **G26. Severability**

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

## **G27. Property Rights**

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

## **G28. Transferability**

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

## **G29. Disclaimer**

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

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

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. Unless specifically waived by the department's stack test contact, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. The department may accept a testing protocol in lieu of a pretest meeting. A representative of the

department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

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

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

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

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

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

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

*567 IAC 26.1(1)*

### **G32. Contacts List**

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

Chief of Air Permits  
EPA Region 7  
Air Permits and Compliance Branch  
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) 242-5100

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

**Field Office 1**

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

**Field Office 2**

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

**Field Office 3**

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

**Field Office 4**

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

**Field Office 5**

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

**Field Office 6**

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

**Polk County Public Works Dept.**

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

**Linn County Public Health Dept.**

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

## V. Appendix

- A. 40 CFR 61 Subpart E – National Emission Standard for Mercury  
<http://www.tceq.texas.gov/permitting/air/rules/federal/61/e/ehp.html>
- B. 40 CFR 60 Subpart A – General Provisions  
<http://www.tceq.texas.gov/permitting/air/rules/federal/60/a/ahp.html>
- C. 40 CFR 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units  
<http://www.tceq.texas.gov/permitting/air/rules/federal/60/dc/dchp.html>
- D. 40 CFR 63 Subpart A – General Provisions  
<http://www.tceq.texas.gov/permitting/air/rules/federal/63/a/ahp.html>
- E. 40 CFR 63 Subpart MMMM – National Emission Standard for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products.  
<http://www.epa.gov/ttn/atw/auto/fr26ap04r.pdf>
- F. 40 CFR 63 Subpart PPPP – National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products.  
<http://www.epa.gov/ttn/atw/auto/fr24ap07.pdf>
- G. 40 CFR 63 Subpart QQQQ – National Emission Standard for Hazardous Air Pollutants: Surface Coating of Wood Building Products.  
<http://www.epa.gov/ttn/atw/wbldg/fr28my03r.pdf>
- H. 40 CFR Part 63 Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (RICE NESHAP)  
<http://www.epa.gov/ttn/atw/rice/fr09mr11.pdf>
- I. 40 CFR Part 63 Subpart DDDDD – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters (Boiler MACT).  
<http://www.epa.gov/ttn/atw/boiler/fr23de11major.pdf>