

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

**Name of Permitted Facility:** IAC Iowa City, LLC  
**Facility Location:** 2500 Highway 6 East  
Iowa City, IA 52240  
**Air Quality Operating Permit Number:** 01-TV-019R2  
**Expiration Date:** December 9, 2018  
**Permit Renewal Application Deadline:** June 9, 2018

**EIQ Number:** 92-5623  
**Facility File Number:** 52-01-003

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**Responsible Official**

**Name:** Brian Pedrick  
**Title:** Plant Manager  
**Mailing Address:** 2500 Highway 6 East Iowa City, IA 52240  
**Phone #:** (319) 688-6281

**Permit Contact Person for the Facility**

**Name:** John Dorsam  
**Title:** Environmental Coordinator  
**Mailing Address:** 2500 Highway 6 East Iowa City, IA 52240  
**Phone #:** (319) 688-6384

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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

# Table of Contents

<b>I. Facility Description and Equipment List .....</b>	<b>4</b>
<b>II. Plant - Wide Conditions.....</b>	<b>7</b>
<b>III. Emission Point Specific Conditions .....</b>	<b>14</b>
<b>IV. General Conditions.....</b>	<b>124</b>
G1. Duty to Comply	
G2. Permit Expiration	
G3. Certification Requirement for Title V Related Documents	
G4. Annual Compliance Certification	
G5. Semi-Annual Monitoring Report	
G6. Annual Fee	
G7. Inspection of Premises, Records, Equipment, Methods and Discharges	
G8. Duty to Provide Information	
G9. General Maintenance and Repair Duties	
G10. Recordkeeping Requirements for Compliance Monitoring	
G11. Evidence used in establishing that a violation has or is occurring.	
G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification	
G13. Hazardous Release	
G14. Excess Emissions and Excess Emissions Reporting Requirements	
G15. Permit Deviation Reporting Requirements	
G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations	
G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification	
G18. Duty to Modify a Title V Permit	
G19. Duty to Obtain Construction Permits	
G20. Asbestos	
G21. Open Burning	
G22. Acid Rain (Title IV) Emissions Allowances	
G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements	
G24. Permit Reopenings	
G25. Permit Shield	
G26. Severability	
G27. Property Rights	
G28. Transferability	
G29. Disclaimer	
G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification	
G31. Prevention of Air Pollution Emergency Episodes	
G32. Contacts List	
<b>V. Appendices.....</b>	<b>138</b>
Appendix A. Web Links to NESHAP Standards	
Appendix B. NESHAP Subpart ZZZZ Requirements	

## 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
IAC.....	Iowa Administrative Code
IDNR.....	Iowa Department of Natural Resources
MVAC.....	motor vehicle air conditioner
NAICS.....	North American Industry Classification System
NSPS.....	new source performance standard
ppmv .....	parts per million by volume
lb./hr .....	pounds per hour
lb./MMBtu .....	pounds per million British thermal units
SCC.....	Source Classification Codes
scfm.....	standard cubic feet per minute
SIC .....	Standard Industrial Classification
TPY.....	tons per year
USEPA.....	United States Environmental Protection Agency

### Pollutants

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

# I. Facility Description and Equipment List

Facility Name: IAC Iowa City, LLC

Permit Number: 01-TV-019R2

Facility Description: Padded Automotive Foam Products (Dashboards, Armrests, etc.)  
 (Primary SIC: 3086, Automotive Component Manufacturing;  
 Secondary SIC: 3471, Plating & Polishing)

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## Equipment List

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<b>Emission Point Number</b>	<b>Emission Unit Number</b>	<b>Emission Unit Description</b>	<b>IDNR Construction Permit Number</b>
S003	BLR1	Boiler #1	04-A-1016-S1
S004	BLR2	Boiler #2	04-A-1017-S1
S005	BLR3	Boiler #3	04-A-1018-S1
S016	MG	Maintenance Grinder	92-A-130
S017	MW	Maintenance Welder	92-A-129
S024	PB7-01	Paint Booth #7-1 Exhaust	89-A-110A-S6
S025	PB7-02	Paint Booth #7-2 Exhaust	89-A-110B-S6
S029	PB11	Paint Booth #11 Exhaust	94-A-097-S7
S030	PB12	Paint Booth #12 Exhaust	84-A-107-S3
S033	PDO07-1	Paint Dry Off Oven #07-1	89-A-116-S1
S037	PDO11	Paint Dry Off Oven #11 (Internally Vented)	94-A-098-S5
S038	PG	Plating Grinder; Silicones	92-A-128
S039	PM	Plating Mixer; Compounds	92-A-127
S074	BFPD	Back Up Fire Diesel Pump	567 IAC 22.1(2)"r"
S075b	WH04	Wax Hood #4 (Wiping Only)	03-A-1065-S3
S083	PB17	Paint Booth #17	97-A-609-S9
S084	WH12, WB3	Wax Hood #12 and Wax Booth #3	97-A-610-S4
S091	PDO17	Paint Dry Off Oven #17	98-A-240-S1
S092	PDO18	Bake Oven #18	98-A-241-S1
S093	PB18, AMU1	Paint Booth #18	98-A-242-S4
S094	PB19, AMU1	Paint Dry Off Oven #17	98-A-243-S4
S095	TE3, AMU1	Tunnel Exhaust #3	98-A-244-S1
S096	TE4, AMU1	Tunnel Exhaust #4	98-A-245-S1
S097	KIT1, AMU1	Neon2000 Kitchen	98-A-246-S1
S098	CR1, AMU1	Neon2000 Clean Room	98-A-247-S1
S099	PB20	Adhesive Application Booth #20	98-A-378-S8
S101	FR3	Ferry Rotocast #3	98-A-380-S1
S104	PB21	Paint Booth #21	04-A-1027-S3
S106	PW9E	Parts Washer Exhaust #9 (Cell 10b)	567 IAC 22.1(2)"a"

<b>Emission Point Number</b>	<b>Emission Unit Number</b>	<b>Emission Unit Description</b>	<b>IDNR Construction Permit Number</b>
S129	PB01, VF1, PDO01	Paint Booth #34 – Heinz Road, Vacuum Former #1 – Heinz Rd, Paint Dry Off Oven #21 – Heinz Rd	04-A-416-S3
S131	SC04	Solvent Cleaning Hood #4	05-A-053-S3
S132	PB31	Paint Booth-Wax Booth #31 (MR)	05-A-054-S3
S133	PB32	Paint Booth #32 (IMC), Paint Booth #33 (P/U)	05-A-055-S3
S136	PW12E	Parts Washer	567 IAC 22.1(2)"a"
S150	PB37	Paint Booth #37	09-A-039-S1
S153	PDO22	Electric Oven	10-A-494
S154	PB39	Glue Booth	10-A-495
S155	PB38	Glue Booth	10-A-496
SHR146	PBHR37	Adhesive Spray Booth	07-A-1356-S1
F013	F-MG	Mold Grinding (Internally Vented)	567 IAC 22.1(2)"u"
F016	F-MUH	Air Make-up Heaters	567 IAC 22.1(2)"a"
F017	F-CADP	Compressed Air Diesel Pump	567 IAC 22.1(2)"r"
F020	F-PW	Plant Wide Fugitives From Wiping & Cleaning	04-A-1028-S2
F021	PB35	Paint Booth 35 (Internally Vented)	Paint Booth
F022	PB36	Paint Booth 36 (Internally Vented)	Paint Booth
F023	IN22	Repaint Booth #38 (Internally Vented)	567 IAC 22.1(2)"w"
F024	IN23	Repaint Booth #39 (Internally Vented)	567 IAC 22.1(2)"w"
F152	IN24	Repaint Booth (Cell 33C)	567 IAC 22.1(2)"w"
F153	IN25	Repaint Booth (Cell 35)	567 IAC 22.1(2)"w"

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**Insignificant Activities Equipment List (Small Unit Exemption) <sup>(1)</sup>**

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<b>Insignificant Emission Unit Number</b>	<b>Insignificant Emission Unit Description</b>
FH1	Fume Hood #1 – Labconco Protector
FH2	Fume Hood #2 – KemMetal
FT1	Flame Treatment 1
FT2	Flame Treatment 2
FT3	Flame Treatment 3
IN18	Laser Scoring of Air Bag Covers
IN19	Laser Scoring of Air Bag Covers
IN21	Laser Scoring of Air Bag Covers
IN26	Mold Cleaner for Corvette Molds (Cell 25)
IN27	Injection Mold Repair Shop Sand Blaster
PB40	Paint Booth #40 (Lab)

<b>Insignificant Emission Unit Number</b>	<b>Insignificant Emission Unit Description</b>
PT1	Plating Tank 1 – Copper
PT2	Plating Tank 2 – Nickel
PT3	Plating Tank 3 – Nickel
PT4	Plating Tank 4 - Copper
PT5	Plating Tank 5 – Nickel
PT6	Plating Tank 6 – Nickel
PG2	Plating Grinding Room
SL1	Storage Silo for PVC and plastic pellets
SL2	Storage Silo for PVC and plastic pellets
SL3	Storage Silo for PVC and plastic pellets
SL4	Storage Silo for PVC and plastic pellets
SL5	Storage Silo for PVC and plastic pellets
SL6	Storage Silo for PVC and plastic pellets
SL7	Storage Silo for PVC and plastic pellets
SM5	Slush Molder #5 (EP S138, S139, S140)
SM6	Slush Molder #6 (EP S141, S142, S143)
SM7	Slush Molder #7 (EP S144, S145, S146)
SM8	Slush Molder #8 (EP 2147, S148, S149)
IN20	Mandrel Burn Off Oven

<sup>(1)</sup>Emission Units qualify for Small Unit Exemption under 567 IAC 22.1(2)"w". Records shall be kept in accordance with 567 IAC 22.1(2)"w"(3).

## II. Plant Wide Conditions

Facility Name: IAC Iowa City, LLC  
Permit Number: 01-TV-019R2

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

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### Permit Duration

The term of this permit is: 5 Years  
Commencing on:  
Ending on:

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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## **NESHAP (National Emission Standards for Hazardous Air Pollutants) Applicability**

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

All surface coating operations at the facility are subject to NESHAP Subpart PPPP Surface Coating of Plastic Parts and Products, 40 CFR §63.4480 - §63.4581.

See Appendix A for the link to the Standard.

Authority for Requirement: 40 CFR 63 Subpart PPPP

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

This facility is subject to NESHAP Subpart DDDDD Industrial, Commercial and Institutional Boilers and Process Heaters, 40 CFR §63.7480 – §63.7575. The affected units are emission points S003, S004, S005, S106, and S136.

See Appendix A for the link to the Standard.

Authority for Requirement: 40 CFR 63 Subpart DDDDD

### **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). The affected units are emission points S074 and F017.

See Appendix A for the link of the Standard.  
See Appendix B for Subpart ZZZZ Requirements.  
Authority for Requirements: 40 CFR 63 Subpart ZZZZ

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## **Non-Combustion VOC / HAPs from Surface Coating Operations**

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

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 240 Tons per Year <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 03-A-1065-S3  
DNR Construction Permit 04-A-416-S3  
DNR Construction Permit 04-A-1027-S3  
DNR Construction Permit 04-A-1028-S2  
DNR Construction Permit 05-A-053-S3  
DNR Construction Permit 05-A-054-S3  
DNR Construction Permit 05-A-055-S3  
DNR Construction Permit 07-A-1356-S1  
DNR Construction Permit 09-A-039-S1  
DNR Construction Permit 10-A-494  
DNR Construction Permit 10-A-495  
DNR Construction Permit 10-A-496  
DNR Construction Permit 84-A-107-S3  
DNR Construction Permit 89-A-110A-S6  
DNR Construction Permit 89-A-110B-S6  
DNR Construction Permit 89-A-116-S1  
DNR Construction Permit 94-A-097-S7  
DNR Construction Permit 94-A-098-S5  
DNR Construction Permit 97-A-609-S9  
DNR Construction Permit 97-A-610-S4  
DNR Construction Permit 98-A-240-S1  
DNR Construction Permit 98-A-241-S1  
DNR Construction Permit 98-A-242-S4  
DNR Construction Permit 98-A-243-S4  
DNR Construction Permit 98-A-244-S1  
DNR Construction Permit 98-A-245-S1  
DNR Construction Permit 98-A-246-S1  
DNR Construction Permit 98-A-247-S1  
DNR Construction Permit 98-A-378-S8

<sup>(1)</sup> Facility-wide limit of 240.0 tons VOC per rolling 12-month period. This limit was established to keep the facility below the PSD major threshold. The limit is for all non-combustion VOC emissions at the facility.

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): 0.16 lb organic HAP / lb coating solids <sup>(2)</sup>

Authority for Requirement: DNR Construction Permit 03-A-1065-S3  
DNR Construction Permit 04-A-416-S3  
DNR Construction Permit 04-A-1027-S3  
DNR Construction Permit 04-A-1028-S2  
DNR Construction Permit 05-A-053-S3  
DNR Construction Permit 05-A-054-S3  
DNR Construction Permit 05-A-055-S3  
DNR Construction Permit 07-A-1356-S1  
DNR Construction Permit 09-A-039-S1  
DNR Construction Permit 10-A-494  
DNR Construction Permit 10-A-495  
DNR Construction Permit 10-A-496  
DNR Construction Permit 84-A-107-S3  
DNR Construction Permit 89-A-110A-S6  
DNR Construction Permit 89-A-110B-S6  
DNR Construction Permit 89-A-116-S1  
DNR Construction Permit 94-A-097-S7  
DNR Construction Permit 94-A-098-S5  
DNR Construction Permit 97-A-609-S9  
DNR Construction Permit 97-A-610-S4  
DNR Construction Permit 98-A-240-S1  
DNR Construction Permit 98-A-241-S1  
DNR Construction Permit 98-A-242-S4  
DNR Construction Permit 98-A-243-S4  
DNR Construction Permit 98-A-244-S1  
DNR Construction Permit 98-A-245-S1  
DNR Construction Permit 98-A-246-S1  
DNR Construction Permit 98-A-247-S1  
DNR Construction Permit 98-A-378-S8

<sup>(2)</sup> Coating operations are subject to NESHAP Subpart P (National Emission Standard for Hazardous Air Pollutants: Surface Coating of Plastic Parts and Products, 40 CFR §63.4480 - 40 CFR §63.4581).

Per 40 CFR §63.4490(b)(1), each existing general use coating affected source is limited to organic hazardous air pollutant (HAP) emission of no more than 0.16 kg (0.16 lb) organic HAP emitted per kg (lb) coating solids used during each 12-month compliance period. The 12-month compliance period is a rolling 12-month total. This limit is for all affected sources at the facility.

Affected sources are any equipment used for surface preparation (including dried coating removal), coating application and curing, equipment cleaning, paint and solvent storage, mixing and conveying vessels, and storage and conveying waste material generated from the coating operations.

## **Operating Limits**

- A. Total VOC emissions from all non-combustion sources at this facility (Plant Number: 52-01-003) shall not exceed 240.0 tons per 365-day rolling total period or 12-month rolling total period. All VOC-containing materials used at the facility shall be included in the emissions calculations.
- B. The owner or operator shall limit organic HAP emissions to the atmosphere to 0.16 lb organic HAP/lb coating solids, as per the emission requirements of 40 CFR §63.4490(b)(1).
- C. The owner or operator shall operate and maintain each affected source according to the provision in 40 CFR §63.6(e)(1)(i). as per the compliance requirements of 40 CFR §63.4500(b).

## **Operating Condition Monitoring**

- A. The permittee (or owner or operator) shall maintain the following daily records:
  - 1. The identification and amount (gallons) of each VOC-containing material used at this facility for all non-combustion sources. For the purpose of calculating emissions for all non-combustion sources at this plant, all VOC-containing materials may be considered emitted on the day they are delivered to the facility or to the production line.
- B. The permittee shall maintain the following monthly records:
  - 1. The identification and the VOC content of each VOC-containing material used at this facility for all non-combustion sources.
  - 2. The amount, in gallons, of each VOC-containing material used at the facility for all non-combustion sources. For the purposes of calculating emissions, all VOC may be considered emitted on the day the materials are delivered to the facility or to the production line.
  - 3. The amount of VOC emissions from all non-combustion sources, in tons.
  - 4. The 12-month rolling total of the amount of VOC emissions from all non-combustion sources, in tons.
- C. If the 12-month rolling total of the VOC emissions exceeds 200.0 tons, the permittee shall immediately begin keeping the following daily records:
  - 1. The amount of VOC emissions from all non-combustion sources, in tons.
  - 2. The 365-day rolling total of the amount of VOC emissions from all non-combustion sources, in tons.

Daily calculations for VOC emissions shall continue until the 365-day rolling total of the amount of VOC emissions from all non-combustion sources drops below 200.0 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of VOC emissions will cease per Section 15.C of this permit. If the emissions once again exceed 200.0 tons, daily recordkeeping will be required per Section 15.C of this permit.

- D. The permittee shall submit reports that identify all exceedences of the rolling 12-month emission limitations for VOC. The report shall be submitted no later than 30 days from the end of the month in which the exceedence occurred.
- E. The permittee may take credit for any waste VOC shipped off-site. The permittee shall record the amount of the waste shipped off-site each day, and analyze the VOC content of the waste once every calendar 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 used 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 rolling totals as of the date the waste is shipped off-site.
- F. The permittee shall keep all applicable records required by 40 CFR §63.4530, §63.4531, and 40 CFR §63.4551.
- G. The owner or operator shall demonstrate compliance with the emission limits according to 40 CFR §63.4550, §63.4551, and §63.4552.

Per 40 CFR §63.4531, the owner or operator shall keep records for NESHAP Subpart P for five (5) years. The owner or operator shall keep each record on-site for at least two (2) years. The remaining three (3) years may be kept off-site. All other records as required by this permit shall be kept on-site for a minimum of two (2) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

Authority for Requirement: DNR Construction Permit 03-A-1065-S3  
 DNR Construction Permit 04-A-416-S3  
 DNR Construction Permit 04-A-1027-S3  
 DNR Construction Permit 04-A-1028-S2  
 DNR Construction Permit 05-A-053-S3  
 DNR Construction Permit 05-A-054-S3  
 DNR Construction Permit 05-A-055-S3  
 DNR Construction Permit 07-A-1356-S1  
 DNR Construction Permit 09-A-039-S1  
 DNR Construction Permit 10-A-494  
 DNR Construction Permit 10-A-495  
 DNR Construction Permit 10-A-496  
 DNR Construction Permit 84-A-107-S3  
 DNR Construction Permit 89-A-110A-S6  
 DNR Construction Permit 89-A-110B-S6  
 DNR Construction Permit 89-A-116-S1  
 DNR Construction Permit 94-A-097-S7  
 DNR Construction Permit 94-A-098-S5  
 DNR Construction Permit 97-A-609-S9  
 DNR Construction Permit 97-A-610-S4  
 DNR Construction Permit 98-A-240-S1

DNR Construction Permit 98-A-241-S1  
DNR Construction Permit 98-A-242-S4  
DNR Construction Permit 98-A-243-S4  
DNR Construction Permit 98-A-244-S1  
DNR Construction Permit 98-A-245-S1  
DNR Construction Permit 98-A-246-S1  
DNR Construction Permit 98-A-247-S1  
DNR Construction Permit 98-A-378-S8

### III. Emission Point-Specific Conditions

Facility Name: IAC Iowa City, LLC  
Permit Number: 01-TV-019R2

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#### **Emission Point ID Number: S003**

##### Associated Equipment

Associated Emission Unit ID Numbers: BLR1

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Emission Unit vented through this Emission Point: BLR1  
Emission Unit Description: Boiler Stack #1  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 10.04 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: 567 IAC 23.3(2)"d"

DNR Construction Permit 04-A-1016-S1

<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): 0.6 lb/MMBtu

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

DNR Construction Permit 04-A-1016-S1

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

Emission Limit(s): 500 ppmv

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

DNR Construction Permit 04-A-1016-S1

**Operational Limits & Requirements**

This emission unit shall only use Natural Gas as a fuel.

Authority for Requirement: DNR Construction Permit 04-A-1016-S1

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 40

Stack Diameter (inches, dia.): 24

Exhaust Flow Rate (scfm): 2,500

Exhaust Temperature (°F): 500

Discharge Style: Vertical, Obstructed

Authority for Requirement: DNR Construction Permit 049-A-1016-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: S004**

### Associated Equipment

Associated Emission Unit ID Numbers: BLR2

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Emission Unit vented through this Emission Point: BLR2

Emission Unit Description: Boiler Stack #2

Raw Material/Fuel: Natural Gas

Rated Capacity: 10.04 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: 567 IAC 23.3(2)"d"

DNR Construction Permit 04-A-1017-S1

<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): 0.6 lb/MMBtu

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

DNR Construction Permit 04-A-1017-S1

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

Emission Limit(s): 500 ppmv

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

DNR Construction Permit 04-A-1017-S1

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

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

This emission unit shall only use Natural Gas as a fuel.

Authority for Requirement: DNR Construction Permit 04-A-1017-S1

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 40  
Stack Diameter (inches, dia.): 24  
Exhaust Flow Rate (scfm): 2,500  
Exhaust Temperature (°F): 500  
Discharge Style: Vertical, Obstructed  
Authority for Requirement: DNR Construction Permit 04-A-1017-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: S005**

### Associated Equipment

Associated Emission Unit ID Numbers: BLR3

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Emission Unit vented through this Emission Point: BLR3

Emission Unit Description: Boiler Stack #3

Raw Material/Fuel: Natural Gas

Rated Capacity: 10.04 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: 567 IAC 23.3(2)"d"

DNR Construction Permit 04-A-1018-S1

<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): 0.6 lb./MMBtu

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

DNR Construction Permit 04-A-1018-S1

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

Emission Limit(s): 500 ppmv

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

DNR Construction Permit 04-A-1018-S1

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

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

This emission unit shall only use Natural Gas as a fuel.

Authority for Requirement: DNR Construction Permit 04-A-1018-S1

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 40  
Stack Diameter (inches, dia.): 24  
Exhaust Flow Rate (scfm): 2,500  
Exhaust Temperature (°F): 500  
Discharge Style: Vertical, Obstructed  
Authority for Requirement: DNR Construction Permit 04-A-1018-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: S016**

### Associated Equipment

Associated Emission Unit ID Numbers: MG

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Emission Unit vented through this Emission Point: MG  
Emission Unit Description: Maintenance Grinder  
Raw Material/Fuel: Various Metals  
Rated Capacity: 0.07 lbs/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 "d"

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.006gr/dscf, 0.056 lb./hr, 0.244 tons/yr  
Authority for Requirement: DNR Construction Permit 92-A-130

#### **Emission Point Characteristics**

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

Stack Height (ft. from the ground): 45  
Stack Diameter (inches, dia.): 14  
Exhaust Flow Rate (acfm): 1122  
Exhaust Temperature (°F): Ambient  
Authority for Requirement: DNR Construction Permit 92-A-130

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: S017**

### Associated Equipment

Associated Emission Unit ID Numbers: MW

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Emission Unit vented through this Emission Point: MW  
Emission Unit Description: Maintenance Welding  
Raw Material/Fuel: Various Welding Rods  
Rated Capacity: 4.62 lbs/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"  
DNR Construction Permit 92-A-129

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.00461 gr/dscf, 0.35lbs /hr, 0.049 tons/yr  
Authority for Requirement: DNR Construction Permit 92-A-129

#### Emission Point Characteristics

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

Stack Height (ft. from the ground): 45  
Stack Diameter (inches, dia.): 24  
Exhaust Flow Rate (acfm): 8860  
Exhaust Temperature (°F): Ambient  
Authority for Requirement: DNR Construction Permit 92-A-129

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: S024**

### Associated Equipment

Associated Emission Unit ID Numbers: PB07-01

Emissions Control Equipment ID Number: CE Filter-08

Emissions Control Equipment Description: Supra 1 High Efficiency Ospray Collectors

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Emission Unit vented through this Emission Point: PB07-01

Emission Unit Description: Paint Booth #07

Raw Material/Fuel: Paint

Rated Capacity: 10.50 lbs/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: 567 IAC 23.3(2)"d"

DNR Construction Permit 89-A-110A-S6

<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-10)

Emission Limit(s): 1.02 lb/hr

Authority for Requirement: DNR Construction Permit 89-A-110A-S6

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: 567 IAC 23.4(13)

DNR Construction Permit 89-A-110A-S6

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Operational Limits & Requirements**

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

Work practice standards:

All control equipment shall be maintained according to the manufacturer’s specifications.

Authority for Requirement: DNR Construction Permit 89-A-110A-S6

Process Throughput:

See Plant Wide Conditions Section

Reporting & Recordkeeping:

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 53

Stack Diameter (inches, dia): 30

Exhaust Flow Rate (scfm): 12,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 89-A-110A-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 spray 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: S025**

### Associated Equipment

Associated Emission Unit ID Numbers: PB07-02

Emissions Control Equipment ID Number: CE Filter-09

Emissions Control Equipment Description: Supra 1 High Efficiency Ospray Collectors

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Emission Unit vented through this Emission Point: PB07-02

Emission Unit Description: Paint Booth

Raw Material/Fuel: Paint

Rated Capacity: 10.50 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: 567 IAC 23.3(2)"d"

DNR Construction Permit 89-A-110B-S6

<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-10)

Emission Limit(s): 1.28 lb./hr

Authority for Requirement: DNR Construction Permit 89-A-110B-S6

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: 567 IAC 23.4(13)

DNR Construction Permit 89-A-110B-S6

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Operational Limits & Requirements**

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

**Work practice standards:**

All control equipment shall be maintained according to the manufacturer’s specifications.

Authority for Requirement: DNR Construction Permit 89-A-110B-S6

**Process Throughput:**

See Plant Wide Conditions Section

**Reporting & Recordkeeping:**

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 53

Stack Diameter (inches, dia.): 30

Exhaust Flow Rate (scfm): 15,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 89-A-110B-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 spray 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: S029**

**Associated Equipment**

Associated Emission Unit ID Numbers: PB11  
Emissions Control Equipment ID Number: CE Filter-13  
Emissions Control Equipment Description: 3300 Series Spra-Guard

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Emission Unit vented through this Emission Point: PB11  
Emission Unit Description: Paint Booth #11  
Raw Material/Fuel: Paint  
Rated Capacity: 1.67 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: 567 IAC 23.3(2)"d"  
DNR Construction Permit 94-A-097-S7

<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-10)  
Emission Limit(s): 0.62 lbs/hr  
Authority for Requirement: DNR Construction Permit 94-A-097-S7

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.01 gr/dscf  
Authority for Requirement: 567 IAC 23.4(13)  
DNR Construction Permit 94-A-097-S7

Pollutant: Volatile Organic Compound (VOC)  
Emission Limit(s): See Plant Wide Conditions Section  
Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)  
Emission Limit(s): See Plant Wide Conditions Section  
Authority for Requirement: See Plant Wide Conditions Section

**Operational Limits & Requirements**

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

**Work practice standards:**

All control equipment shall be maintained according to the manufacturer’s specifications.

Authority for Requirement: DNR Construction Permit 94-A-097-S7

**Process Throughput:**

See Plant Wide Conditions Section

**Reporting & Recordkeeping:**

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 50

Stack Diameter (inches, dia.): 24

Stack Exhaust Flow Rate (scfm): 7,230

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 94-A-097-S7

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 spray 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: S030**

### **Associated Equipment**

Associated Emission Unit ID Numbers: PB-12  
Emissions Control Equipment ID Number: CE Filter-14  
Emissions Control Equipment Description: RP Paint Arrestors

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Emission Unit vented through this Emission Point: PB-12  
Emission Unit Description: Paint Booth #12  
Raw Material/Fuel: Paint  
Rated Capacity: 4.48 lbs/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: 567 IAC 23.3(2)"d"

DNR Construction Permit 84-A-107-S3

<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-10)

Emission Limit(s): 0.21 lb/hr

Authority for Requirement: DNR Construction Permit 84-A-107-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: 567 IAC 23.4(13)

DNR Construction Permit 84-A-107-S3

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Operational Limits & Requirements**

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

Work practice standards:

All control equipment shall be maintained according to the manufacturer’s specifications.

Authority for Requirement: DNR Construction Permit 84-A-107-S3

Process Throughput:

See Plant Wide Conditions Section

Reporting & Recordkeeping:

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 46

Stack Opening (inches, dia.): 18

Exhaust Flow Rate (scfm): 2500

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 84-A-107-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

## **Paint Booth Agency Operation & Maintenance Plan**

### **Weekly**

- Inspect the spray 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: S033**

### **Associated Equipment**

Associated Emission Unit ID Numbers: PDO07-1

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Emission Unit vented through this Emission Point: PDO07-1  
Emission Unit Description: Paint Dry-Off Oven #07-1  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 0.50 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: 567 IAC 23.3(2)"d"

DNR Construction Permit 89-A-116-S1

<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)

Emission Limit(s): 0.1 gr/dscf

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

DNR Construction Permit 89-A-116-S1

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

Emission Limit(s): 500 ppmv

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

DNR Construction Permit 89-A-116-S1

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Operational Limits & Requirements**

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

The Paint Dry Off Oven (PD007-1) shall only combust natural gas or propane.  
Authority for Requirement: DNR Construction Permit 89-A-116-S1

Process Throughput:  
See Plant Wide Conditions Section

Reporting & Recordkeeping:  
See Plant Wide Conditions Section  
Authority for Requirement: See Plant Wide Conditions Section

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 48  
Stack Opening (inches, dia.): 8  
Exhaust Flow Rate (acfm): 12,000  
Exhaust Temperature (°F): 100  
Discharge Style: Vertical, Obstructed  
Authority for Requirement: DNR Construction Permit 89-A-116-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: S037 (Internally Vented)**

### **Associated Equipment**

Associated Emission Unit ID Numbers: EU PDO11

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Emission Unit vented through this Emission Point: EU PDO11

Emission Unit Description: Paint Dry-Off Oven #11

Raw Material/Fuel: Natural Gas

Rated Capacity: 0.80 MMBtu/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

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

DNR Construction Permit 94-A-098-S5

<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)

Emission Limit(s): 0.1 gr/dscf

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

DNR Construction Permit 94-A-098-S5

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

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

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

Process Throughput:

See Plant Wide Conditions Section

Reporting & Recordkeeping:

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**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: S038**

**Associated Equipment**

Associated Emission Unit ID Numbers: PG

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Emission Unit vented through this Emission Point: PG  
Emission Unit Description: Plate Grinding  
Raw Material/Fuel: Fiberglass, Silicon Forms  
Rated Capacity: 2.50 lbs/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): 0.0046 gr/dscf, 2.5 lbs/hr, 2.50 tons/yr  
Authority for Requirement: DNR Construction Permit 92-A-128

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 35  
Stack Diameter (inches, dia.): 14  
Exhaust Flow Rate (acfm): 1714  
Exhaust Temperature (°F): Ambient  
Authority for Requirement: DNR Construction Permit 92-A-128

**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: S039**

### **Associated Equipment**

Associated Emission Unit ID Numbers: PM

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Emission Unit vented through this Emission Point: PM  
Emission Unit Description: Plating Mixer  
Raw Material/Fuel: Fiberglass Compounds  
Rated Capacity: 1.21 lbs/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): 0.00038 gr/dscf, 0.03 lbs/hr, 0.003 tons/yr  
Authority for Requirement: DNR Construction Permit 92-A-127

#### **Emission Point Characteristics**

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

Stack Height (ft. from the ground): 35  
Stack Diameter (inches, dia.): 12  
Exhaust Flow Rate (acfm): 922  
Exhaust Temperature (°F): Ambient  
Authority for Requirement: DNR Construction Permit 92-A-127

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: S074**

Associated Equipment

Associated Emission Unit ID Numbers: BFDP

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Emission Unit vented through this Emission Point: BFDP  
Emission Unit Description: Backup Fire Diesel Pump  
Raw Material/Fuel: Diesel Fuel  
Rated Capacity: 121 hp (5.8 gal./hr at 1750 rpm)

**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): 0.1 gr/dscf  
Authority for Requirement: 567 IAC 23.3(2)"a"

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

**Operational Limits & Requirements**

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

Process throughput:

No person shall allow, cause or permit the combustion of number 1 or number 2 fuel oil exceeding a sulfur content of 0.5 percent by weight.  
Authority for Requirement: 567 IAC 23.3(3)"b"(1)

Reporting & Recordkeeping:

The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.  
Authority for Requirement: 567 IAC 22.108(3)

**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: S075B**

### Associated Equipment

Associated Emission Unit ID Numbers: Wax Hood #04 (WH04)

Emissions Control Equipment ID Number: CE Filter-53

Emissions Control Equipment Description: Dry Filters

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Emission Unit vented through this Emission Point: WH04

Emission Unit Description: Wax Hood #04

Raw Material/Fuel: Wax

Rated Capacity: Hand Applied Only

### 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: 567 IAC 23.3(2)"d"

DNR Construction Permit 03-A-1065-S3

<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 (PM10)

Emission Limit(s): 0.26 lbs/hr

Authority for Requirement: DNR Construction Permit 03-A-1065-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

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

DNR Construction Permit 03-A-1065-S3

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Operational Limits & Requirements**

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

Work practice standards:

All control equipment shall be maintained according to the manufacturer’s specifications.

Authority for Requirement: DNR Construction Permit 03-A-1065-S3

Process Throughput:

See Plant Wide Conditions Section

Reporting & Recordkeeping:

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 45

Stack Diameter (inches, dia.): 14

Exhaust Flow Rate (scfm): 3000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 03-A-1065-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

## **Wax Hood / Wax Booth Agency Operation & Maintenance Plan**

### **Weekly**

- Inspect the spray 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: S083**

Associated Equipment

Associated Emission Unit ID Numbers: PB17  
Emissions Control Equipment ID Number: CE Filter 40  
Emissions Control Equipment Description: Spra-Guard 3300 Paint Arrestors

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Emission Unit vented through this Emission Point: PB17  
Emission Unit Description: Paint Booth #17  
Raw Material/Fuel: Paint  
Rated Capacity: 3.8 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: 567 IAC 23.3(2)"d"  
DNR Construction Permit 97-A-609-S9

<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 (PM10)  
Emission Limit(s): 0.86 lbs/hr  
Authority for Requirement: DNR Construction Permit 97-A-609-S9

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.01 gr/dscf  
Authority for Requirement: 567 IAC 23.4(13)  
DNR Construction Permit 97-A-609-S9

Pollutant: Volatile Organic Compound (VOC)  
Emission Limit(s): See Plant Wide Conditions Section  
Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)  
Emission Limit(s): See Plant Wide Conditions Section  
Authority for Requirement: See Plant Wide Conditions Section

**Operational Limits & Requirements**

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

**Work practice standards:**

This booth shall be operated with a robotic spray system.

Authority for Requirement: DNR Construction Permit 97-A-609-S9

**Process Throughput:**

See Plant Wide Conditions Section

**Reporting & Recordkeeping:**

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 44

Stack Diameter (inches, dia.): 25

Stack Exhaust Flow Rate (scfm): 10,000

Exhaust Temperature (°F): 75

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 97-A-609-S9

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 spray 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: S084**

### Associated Equipment

Associated Emission Unit ID Numbers: WH12/WB3  
Emissions Control Equipment ID Number: CE Filter-41  
Emissions Control Equipment Description: Wax Filter

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Emission Unit vented through this Emission Point: WH12  
Emission Unit Description: GMT Wax Hood #12 and Wax Booth #3  
Raw Material/Fuel: Wax  
Rated Capacity: 23.0 oz/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: 567 IAC 23.3(2)"d"

DNR Construction Permit 97-A-610-S4

<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 (PM10)

Emission Limit(s): 0.68 lbs/hr

Authority for Requirement: DNR Construction Permit 97-A-610-S4

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: 567 IAC 23.4(13)

DNR Construction Permit 97-A-610-S4

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Operational Limits & Requirements**

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

Work practice standards:

All control equipment shall be maintained according to the manufacturer’s specifications.

Authority for Requirement: DNR Construction Permit 97-A-610- S4

Process Throughput:

See Plant Wide Conditions Section

Reporting & Recordkeeping:

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 44

Stack Diameter (inches, dia.): 25

Stack Exhaust Flow Rate (scfm): 8,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 97-A-610-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

**Wax Hood / Wax Booth Agency Operation & Maintenance Plan**

**Weekly**

- Inspect the spray 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: S091**

### Associated Equipment

Associated Emission Unit ID Numbers: PDO17

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Emission Unit vented through this Emission Point: PDO17

Emission Unit Description: Neon Paint Dry-Off Oven

Raw Material/Fuel: Natural Gas

Rated Capacity: 1.0 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: 567 IAC 23.3(2)"d"

DNR Construction Permit 98-A-240-S1

<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)

Emission Limit(s): 0.1 gr/dscf

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

DNR Construction Permit 98-A-240-S1

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

Emission Limit(s): 500 ppmv

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

DNR Construction Permit 98-A-240-S1

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Operational Limits & Requirements**

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

Fuels are limited to Natural Gas and Liquid Propane.

Authority for Requirement: DNR Construction Permit 98-A-240-S1

**Process Throughput:**

See Plant Wide Conditions Section

**Reporting & Recordkeeping:**

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 45

Stack Diameter (inches, dia.): 10

Exhaust Flow Rate (acfm): 2200

Exhaust Temperature (°F): 160

Authority for Requirement: DNR Construction Permit 98-A-240-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: S092**

### Associated Equipment

Associated Emission Unit ID Numbers: PDO18

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Emission Unit vented through this Emission Point: PDO18  
Emission Unit Description: Neon Paint Bake Oven  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 1.0 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: 567 IAC 23.3(2)"d"

DNR Construction Permit 98-A-241-S1

<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)

Emission Limit(s): 0.1 gr/dscf

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

DNR Construction Permit 98-A-241-S1

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

Emission Limit(s): 500 ppmv

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

DNR Construction Permit 98-A-241-S1

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Operational Limits & Requirements**

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

The Post-Bake Oven shall only combust natural gas or propane.  
Authority for Requirement: DNR Construction Permit 98-A-241-S1

Process Throughput:  
See Plant Wide Conditions Section

Reporting & Recordkeeping:  
See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 38  
Stack Diameter (inches, dia.): 10  
Exhaust Flow Rate (acfm): 2200  
Exhaust Temperature (°F): 165  
Discharge Style: Vertical, Obstructed  
Authority for Requirement: DNR Construction Permit 98-A-241-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: S093**

Associated Equipment

Associated Emission Unit ID Numbers: PB18, AMU1  
Emissions Control Equipment ID Number: Filter-42  
Emissions Control Equipment Description: Spra-Guard 3300 Paint Arrestors

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Emission Unit vented through this Emission Point: PB18, AMU1  
Emission Unit Description: Paint Booth, Air Makeup Unit 1  
Raw Material/Fuel: Paint Fumes, Natural Gas  
Rated Capacity: 1.9 gal/hr, 6.6 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: 567 IAC 23.3(2)"d"  
DNR Construction Permit 98-A-242-S4

<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 (PM10)  
Emission Limit(s): 1.92 lb./hr  
Authority for Requirement: DNR Construction Permit 98-A-242-S4

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.01 gr/dscf  
Authority for Requirement: 567 IAC 23.4(13)  
DNR Construction Permit 98-A-242-S4

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limit(s): 500 ppmv  
Authority for Requirement: 567 IAC 23.3(3)"e"  
DNR Construction Permit 98-A-242-S4

Pollutant: Volatile Organic Compound (VOC)  
Emission Limit(s): See Plant Wide Conditions Section  
Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)  
Emission Limit(s): See Plant Wide Conditions Section  
Authority for Requirement: See Plant Wide Conditions Section

**Operational Limits & Requirements**

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

The Air Makeup Unit (AMU-1) shall only combust natural gas or propane.

Work practice standards:

All control equipment shall be maintained according to the manufacturer's specifications.  
Authority for Requirement: DNR Construction Permit 98-A-242-S4

Process Throughput:

See Plant Wide Conditions Section

Reporting & Recordkeeping:

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Emission Point Characteristics**

*The source shall be connected to the stack designated below.*

Stack Height (ft. from the ground): 48  
Stack Diameter (inches, dia.): 34  
Exhaust Flow Rate (scfm): 22,500  
Exhaust Temperature (°F): Ambient  
Discharge Style: Vertical, Obstructed  
Authority for Requirement: DNR Construction Permit 98-A-242-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

**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: S094**

### Associated Equipment

Associated Emission Unit ID Numbers: PB19, AMU1

Emissions Control Equipment ID Number: CE Filtler-43

Emissions Control Equipment Description: Spra-Guard 3300 Paint Arrestor

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Emission Unit vented through this Emission Point: PB19, AMU1

Emission Unit Description: Paint Booth #19, Air Make-up Unit

Raw Material/Fuel: Paint, Natural Gas

Rated Capacity: 1.9 gal/hr, 6.6 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: 567 IAC 23.3(2)"d"

DNR Construction Permit 98-A-243-S4

<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 (PM10)

Emission Limit(s): 1.92 lb/hr

Authority for Requirement: DNR Construction Permit 98-A-243-S4

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: 567 IAC 23.4(13)

DNR Construction Permit 98-A-243-S4

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

Emission Limit(s): 500 ppmv

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

DNR Construction Permit 98-A-243-S4

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)  
Emission Limit(s): See Plant Wide Conditions Section  
Authority for Requirement: See Plant Wide Conditions Section

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 38  
Stack Diameter (inches, dia.): 34  
Exhaust Flow Rate (scfm): 22,500  
Exhaust Temperature (°F): Ambient  
Discharge Style: Vertical, Obstructed  
Authority for Requirement: DNR Construction Permit 98-A-243-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.

**Operational Limits & Requirements**

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

The Air Makeup Unit (AMU-1) shall only combust natural gas or propane.  
Authority for Requirement: DNR Construction Permit 98-A-243-S4

Process Throughput:  
See Plant Wide Conditions Section

Reporting & Recordkeeping:  
See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**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: S095**

### Associated Equipment

Associated Emission Unit ID Numbers: TE3, AMU1

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Emission Unit vented through this Emission Point: TE3, AMU1  
Emission Unit Description: Neon 2000 Flash Tunnel #1, Air Make-up Unit  
Raw Material/Fuel: Paint Fumes, Natural Gas  
Rated Capacity: 1200 acfm, 6.6 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: 567 IAC 23.3(2)"d"  
DNR Construction Permit 98-A-244-S1

<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)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"  
DNR Construction Permit 98-A-244-S1

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

Emission Limit(s): 500 ppmv

Authority for Requirement: 567 IAC 23.3(3)"e"  
DNR Construction Permit 98-A-244-S1

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

#### **Emission Point Characteristics**

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

Stack Height (ft. from the ground): 38  
Stack Diameter (inches, dia.): 12  
Exhaust Flow Rate (acfm): 1200  
Exhaust Temperature (°F): 100  
Discharge Style: Vertical, Obstructed  
Authority for Requirement: DNR Construction Permit 98-A-244-S1

**Operational Limits & Requirements**

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

The Air Makeup Unit (AMU-1) shall only combust natural gas or propane.  
Authority for Requirement: DNR Construction Permit 98-A-244-S1

Process Throughput:  
See Plant Wide Conditions Section

Reporting & Recordkeeping:  
See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**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: S096**

### Associated Equipment

Associated Emission Unit ID Numbers: TE4, AMU1

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Emission Unit vented through this Emission Point: TE4, AMU1  
Emission Unit Description: Neon 2000 Flash Tunnel #2, Air Make-up Unit  
Raw Material/Fuel: Paint Fumes, Natural Gas  
Rated Capacity: 1200 acfm, 6.6 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: DNR Construction Permit 98-A-245-S1

<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)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"  
DNR Construction Permit 98-A-245-S1

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

Emission Limit(s): 500 ppmv

Authority for Requirement: 567 IAC 23.3(3)"e"  
DNR Construction Permit 98-A-245-S1

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

#### **Emission Point Characteristics**

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

Stack Height (ft. from the ground): 38

Stack Diameter (inches, dia.): 12  
Exhaust Flow Rate (acfm): 1200  
Exhaust Temperature (°F): Ambient  
Discharge Style: Vertical, Obstructed  
Authority for Requirement: DNR Construction Permit 98-A-245-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.

**Operational Limits & Requirements**

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

The Air Makeup Unit (AMU-1) shall only combust natural gas or propane.  
Authority for Requirement: DNR Construction Permit 98-A-245-S1

Process Throughput:  
See Plant Wide Conditions Section

Reporting & Recordkeeping:  
See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**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: S097**

Associated Equipment

Associated Emission Unit ID Numbers: KIT1, AMU1

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Emission Unit vented through this Emission Point: KIT1, AMU1  
Emission Unit Description: Paint Mix Kitchen, Air Make-up Unit  
Raw Material/Fuel: Paint Fumes, Natural Gas  
Rated Capacity: 1200 acfm, 6.6 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: 567 IAC 23.3(2)"d"

DNR Construction Permit 98-A-246-S1

<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)

Emission Limit(s): 0.1 gr/dscf

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

DNR Construction Permit 98-A-246-S1

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

Emission Limit(s): 500 ppmv

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

DNR Construction Permit 98-A-246-S1

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 45  
Stack Diameter (inches, dia.): 12  
Exhaust Flow Rate (acfm): 1200  
Exhaust Temperature (°F): Ambient  
Discharge Style: Vertical, Obstructed  
Authority for Requirement: DNR Construction Permit 98-A-246-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.

**Operational Limits & Requirements**

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

The Air Makeup Unit (AMU-1) shall only combust natural gas or propane.  
Authority for Requirement: DNR Construction Permit 98-A-246-S1

**Process Throughput:**

See Plant Wide Conditions Section

**Reporting & Recordkeeping:**

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**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: S098**

Associated Equipment

Associated Emission Unit ID Numbers: CR1, AMU1

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Emission Unit vented through this Emission Point: CR1, AMU1  
Emission Unit Description: Neon 2000 Clean Room, Air Make-up Unit  
Raw Material/Fuel: Air from the Air Make-up Unit, Natural Gas  
Rated Capacity: 1200 scfm, 6.6 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: 567 IAC 23.3(2)"d"

DNR Construction Permit 98-A-247-S1

<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)

Emission Limit(s): 0.1 gr/dscf

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

DNR Construction Permit 98-A-247-S1

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

Emission Limit(s): 500 ppmv

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

DNR Construction Permit 98-A-247-S1

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 45  
Stack Diameter (inches, dia.): 12  
Exhaust Flow Rate (acfm): 1200  
Exhaust Temperature (°F): Ambient  
Discharge Style: Vertical, Obstructed  
Authority for Requirement: DNR Construction Permit 98-A-247-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.

**Operational Limits & Requirements**

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

The Air Makeup Unit (AMU-1) shall only combust natural gas or propane.  
Authority for Requirement: DNR Construction Permit 98-A-247-S1

**Process Throughput:**

See Plant Wide Conditions Section

**Reporting & Recordkeeping:**

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**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: S099**

### Associated Equipment

Associated Emission Unit ID Numbers: PB20

Emissions Control Equipment ID Number: CE Filter-44

Emissions Control Equipment Description: Fabric Filter / Dust Collector

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Emission Unit vented through this Emission Point: PB20

Emission Unit Description: Adhesive Application Booth #20

Raw Material/Fuel: Adhesive

Rated Capacity: 3.8 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: 567 IAC 23.3(2)"d"

DNR Construction Permit 98-A-378-S8

<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 (PM10)

Emission Limit(s): 0.86 lbs/hr

Authority for Requirement: DNR Construction Permit 98-A-378-S8

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

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

DNR Construction Permit 98-A-378-S8

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Operational Limits & Requirements**

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

A maximum of one spray gun shall be operated in the adhesive application booth at any time.

Authority for Requirement: DNR Construction Permit 98-A-378-S8

**Process Throughput:**

See Plant Wide Conditions Section

**Reporting & Recordkeeping:**

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 44

Stack Diameter (inches, dia.): 25

Stack Exhaust Flow Rate (scfm): 10,000

Exhaust Temperature (°F): 75

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 98-A-378-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

## **Adhesive Booth Agency Operation & Maintenance Plan**

### **Weekly**

- Inspect the spray 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: S101**

### Associated Equipment

Associated Emission Unit ID Numbers: FR3

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Emission Unit vented through this Emission Point: FR3

Emission Unit Description: GMT800 Rotocast #3

Raw Material/Fuel: Vinyl/Natural Gas

Rated Capacity: 2.15 MMBtu/hr

### **Applicable Requirements**

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

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

Pollutant: Opacity

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

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

DNR Construction Permit 98-A-380-S1

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

Pollutant: Particulate Matter (PM10)

Emission Limit(s): 0.025 lbs/hr, 0.11 Tons per Year

Authority for Requirement: DNR Construction Permit 98-A-380-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/scf

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

DNR Construction Permit 98-A-380-S1

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

Emission Limit(s): 500 ppmv

Authority for Requirement: 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.*

**Process Throughput:**

The fuel fired in this source shall be either natural gas or liquid propane.

Authority for Requirement: DNR Construction Permit 98-A-380-S1

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 44

Stack Diameter (feet): 1.1

Stack Exhaust Flow Rate (scfm): 700

Exhaust Temperature (°F): 550

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 98-A-380-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: S104**

### Associated Equipment

Associated Emission Unit ID Numbers: PB21  
Emissions Control Equipment ID Number: Filter-49  
Emissions Control Equipment Description: 3300 Series Spra-Guard

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Emission Unit vented through this Emission Point: PB21  
Emission Unit Description: Plating Paint Booth  
Raw Material/Fuel: Paint/Thinner  
Rated Capacity: 4.0 oz/min, 15 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"

DNR Construction Permit 04-A-1027-S3

<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 (PM10)

Emission Limit(s): 0.51 lbs/hr

Authority for Requirement: DNR Construction Permit 04-A-1027-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: 567 IAC 23.4(13)

DNR Construction Permit 04-A-1027-S3

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total (Organic) Hazardous Air Pollutants (Total (Organic) HAP)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Operational Limits & Requirements**

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

Process Throughput:

See Plant Wide Conditions Section

Reporting & Recordkeeping:

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 30

Stack Diameter (inches, dia.): 24

Stack Exhaust Flow Rate (scfm): 6,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 04-A-1027-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

## **Paint Booth Agency Operation & Maintenance Plan**

### **Weekly**

- Inspect the spray 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: S106**

**Associated Equipment**

Associated Emission Unit ID Numbers: PW9E

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Emission Unit vented through this Emission Point: PW9E  
Emission Unit Description: Parts Washer Exhaust #9 (Cell 10b)  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 0.4 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: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.1 gr/dscf  
Authority for Requirement: 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"

**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: S129**

### **Associated Equipment**

Associated Emission Unit ID Numbers: EU PB01, VF1, PDO01

Emissions Control Equipment ID Number: CE Filter-58

Emissions Control Equipment Description: Dry Filter

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Emission Unit vented through this Emission Point: EU PB01, VF1, PDO01

Emission Unit Description: Paint Booth #31-Heinz Rd, Vacuum Former #1 – Heinz Rd, Paint  
Dry Off Oven #21 – Heinz Rd

Raw Material/Fuel: Paint; Adhesive

Rated Capacity: 8,100 scfm; Gun Capacity Unknown

### **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: 567 IAC 23.3(2)"d"

DNR Construction Permit 04-A-416-S3

<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 (PM10)

Emission Limit(s): 0.69 lb/hr

Authority for Requirement: DNR Construction Permit 04-A-416-S3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: 567 IAC 23.4(13)

DNR Construction Permit 04-A-416-S3

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total (Organic) Hazardous Air Pollutants (Total (Organic) HAP)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Operational Limits & Requirements**

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

**Process Throughput:**

See Plant Wide Conditions Section

**Reporting & Recordkeeping:**

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 38

Stack Diameter (inches, dia.): 24

Exhaust Flow Rate (scfm): 8,100

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 04-A-416- 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

## **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: S131**

### **Associated Equipment**

Associated Emission Unit ID Numbers: SC04

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Emission Unit vented through this Emission Point: EU SC04

Emission Unit Description: Solvent Cleaning Hood #4

Raw Material/Fuel: Solvent

Rated Capacity: 15,000 cfm (Fan Rating)

### **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: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

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

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

Process Throughput:

See Plant Wide Conditions Section

Reporting & Recordkeeping:

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

#### **Emission Point Characteristics**

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

Stack Height (ft. from the ground): 40

Stack Diameter (inches, dia.): 30

Exhaust Flow Rate (scfm): 15,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 05-A-053-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: S132**

### **Associated Equipment**

Associated Emission Unit ID Numbers: EU PB32  
Emissions Control Equipment ID Number: CE Filter-63  
Emissions Control Equipment Description: Dry Filter

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Emission Unit vented through this Emission Point: EU PB32  
Emission Unit Description: Paint Booth-Wax Booth #31 (MR)  
Raw Material/Fuel: Paint  
Rated Capacity: 1 Gun (45 oz./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: 567 IAC 23.3(2)"d"

DNR Construction Permit 05-A-054- S3

<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: 567 IAC 23.4(13)  
DNR Construction Permit 05-A-054- S3

Pollutant: Volatile Organic Compound (VOC)  
Emission Limit(s): See Plant Wide Conditions Section  
Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)  
Emission Limit(s): See Plant Wide Conditions Section  
Authority for Requirement: See Plant Wide Conditions Section

**Operational Limits & Requirements**

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

**Process Throughput:**

See Plant Wide Conditions Section

**Reporting & Recordkeeping:**

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 40

Stack Diameter (inches, dia.): 34

Exhaust Flow Rate (scfm): 18,700

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 05-A-054-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

**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: S133**

### **Associated Equipment**

Associated Emission Unit ID Numbers: EU PB32, EU PB33  
Emissions Control Equipment ID Number: CE FILTER-60, CE FILTER-61  
Emissions Control Equipment Description: Dry Filter

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Emission Unit vented through this Emission Point: EU PB32, EU PB33  
Emission Unit Description: Paint Booth #32 (IMC) (C), Paint Booth #33 (P/U)  
Raw Material/Fuel: Paint, Urethane  
Rated Capacity: 2 Guns (45 oz/min; 21 grams/sec)

### **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: 567 IAC 23.3(2)"d"

DNR Construction Permit 05-A-055-S3

<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: 567 IAC 23.4(13)  
DNR Construction Permit 05-A-055-S3

Pollutant: Volatile Organic Compound (VOC)  
Emission Limit(s): See Plant Wide Conditions Section  
Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)  
Emission Limit(s): See Plant Wide Conditions Section  
Authority for Requirement: See Plant Wide Conditions Section

**Operational Limits & Requirements**

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

**Process Throughput:**

See Plant Wide Conditions Section

**Reporting & Recordkeeping:**

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 40

Stack Diameter (inches, dia.): 20

Exhaust Flow Rate (scfm): 7,400

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 05-A-055-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

## **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: S136**

**Associated Equipment**

Associated Emission Unit ID Numbers: PW12E

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Emission Unit vented through this Emission Point: PW12E  
Emission Unit Description: Parts Washer Exhaust #12 (Cell 33) (C)  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 0.2 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: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.1 gr/dscf  
Authority for Requirement: 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"

**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: S150**

### **Associated Equipment**

Associated Emission Unit ID Numbers: EU PB37  
Emissions Control Equipment ID Number: CE Filter-56  
Emissions Control Equipment Description: Dry Filters

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Emission Unit vented through this Emission Point: EU PB37  
Emission Unit Description: Paint Booth #37  
Raw Material/Fuel: Paint  
Rated Capacity: 14.0 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: 567 IAC 23.3(2)"d"

DNR Construction Permit 09-A-039-S1

<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 (PM10)  
Emission Limit(s): 0.69 lbs/hr  
Authority for Requirement: DNR Construction Permit 09-A-039-S1

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.01 gr/dscf  
Authority for Requirement: 567 IAC 23.4(13)  
DNR Construction Permit 09-A-039-S1

Pollutant: Volatile Organic Compound (VOC)  
Emission Limit(s): See Plant Wide Conditions Section  
Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)  
Emission Limit(s): See Plant Wide Conditions Section  
Authority for Requirement: See Plant Wide Conditions Section

**Operational Limits & Requirements**

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

**Process Throughput:**

See Plant Wide Conditions Section

**Reporting & Recordkeeping:**

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 38

Stack Diameter (inches, dia.): 36

Exhaust Flow Rate (acfm): 14,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 09-A-039-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: S153**

### **Associated Equipment**

Associated Emission Unit ID Numbers: EU PDO22

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Emission Unit vented through this Emission Point: EU PDO22

Emission Unit Description: Electric Oven

Raw Material/Fuel: Electric Heat

Rated Capacity: N/A

### **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: 567 IAC 23.3(2)"d"

DNR Construction Permit 10-A-494

<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)

Emission Limit(s): 0.1 gr/dscf

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

DNR Construction Permit 10-A-494

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

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

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

The oven shall only be heated by converting electrical energy into heat.

Process Throughput:

See Plant Wide Conditions Section

Reporting & Recordkeeping:

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 38

Stack Diameter (inches, dia.): 18

Exhaust Flow Rate (scfm): 2800

Exhaust Temperature (°F): 70

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 10-A-494

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: S154**

### **Associated Equipment**

Associated Emission Unit ID Numbers: EU PB39  
Emissions Control Equipment ID Number: CE Filter-67  
Emissions Control Equipment Description: Dry Filters

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Emission Unit vented through this Emission Point: EU PB39  
Emission Unit Description: Glue Booth  
Raw Material/Fuel: Glue  
Rated Capacity: 1 gun, 0.275 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: 567 IAC 23.3(2)"d"

DNR Construction Permit 10-A-495

<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 (PM10)  
Emission Limit(s): 0.24 lbs/hr  
Authority for Requirement: DNR Construction Permit 10-A-495

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.1 gr/dscf  
Authority for Requirement: 567 IAC 23.3(2)"a"  
DNR Construction Permit 10-A-495

Pollutant: Volatile Organic Compound (VOC)  
Emission Limit(s): See Plant Wide Conditions Section  
Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)  
Emission Limit(s): See Plant Wide Conditions Section  
Authority for Requirement: See Plant Wide Conditions Section

**Operational Limits & Requirements**

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

A maximum of one spray gun shall be operated in the glue booth at any time.

**Process Throughput:**

See Plant Wide Conditions Section

**Reporting & Recordkeeping:**

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 38

Stack Diameter (inches, dia.): 18

Exhaust Flow Rate (acfm): 2800

Exhaust Temperature (°F): 70

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 10-A-495

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

**Glue Booth Agency Operation & Maintenance Plan**

**Weekly**

- Inspect the spray 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: S155**

### **Associated Equipment**

Associated Emission Unit ID Numbers: EU PB38  
Emissions Control Equipment ID Number: CE Filter-68  
Emissions Control Equipment Description: Dry Filters

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Emission Unit vented through this Emission Point: EU PB38  
Emission Unit Description: Glue Booth  
Raw Material/Fuel: Glue  
Rated Capacity: 1 gun, 0.275 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: 567 IAC 23.3(2)"d"

DNR Construction Permit 10-A-496

<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 (PM10)

Emission Limit(s): 0.24 lbs/hr

Authority for Requirement: DNR Construction Permit 10-A-496

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

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

DNR Construction Permit 10-A-496

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Operational Limits & Requirements**

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

A maximum of one spray gun shall be operated in the glue booth at any time.

**Process Throughput:**

See Plant Wide Conditions Section

**Reporting & Recordkeeping:**

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 38

Stack Diameter (inches, dia.): 18

Exhaust Flow Rate (acfm): 2800

Exhaust Temperature (°F): 70

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 10-A-496

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

**Glue Booth Agency Operation & Maintenance Plan**

**Weekly**

- Inspect the spray 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: SHR146**

### **Associated Equipment**

Associated Emission Unit ID Numbers: PBHR37

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Emission Unit vented through this Emission Point: PBHR37

Emission Unit Description: Adhesive Spray Booth

Raw Material/Fuel: Adhesive

Rated Capacity: 48 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: 567 IAC 23.3(2)"d"

DNR Construction Permit 07-A-1356-S1

<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 (PM10)

Emission Limit(s): 0.14 lbs/hr

Authority for Requirement: DNR Construction Permit 07-A-1356-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

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

DNR Construction Permit 07-A-1356-S1

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Operational Limits & Requirements**

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

**Process Throughput:**

See Plant Wide Conditions Section

**Reporting & Recordkeeping:**

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**Emission Point Characteristics**

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

Stack Height (ft. from the ground): 41

Stack Diameter (inches, dia.): 24

Stack Exhaust Flow Rate (scfm): 9500

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 07-A-1356-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

**Adhesive Booth Agency Operation & Maintenance Plan**

**Weekly**

- Inspect the spray 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: F013 (Internally Vented)**

Associated Equipment

Associated Emission Unit ID Numbers: F-MG

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Emission Unit vented through this Emission Point: F-MG  
Emission Unit Description: Mold Grinding  
Raw Material/Fuel: Casting Molds  
Rated Capacity: 121 horsepower/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): 0.1 gr/dscf  
Authority for Requirement: 567 IAC 23.3(2)"a"

**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: F016**

Associated Equipment

Associated Emission Unit ID Numbers: F-MUH

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Emission Unit vented through this Emission Point: F-MUH  
Emission Unit Description: Air Make-up Heaters  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 6.6 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%  
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM)  
Emission Limit(s): 0.6 lb/MMBtu  
Authority for Requirement: 567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limit(s): 500 ppmv  
Authority for Requirement: 567 IAC 23.3(3)"e"

**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: F017**

### Associated Equipment

Associated Emission Unit ID Numbers: F-CADP

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Emission Unit vented through this Emission Point: F-CADP  
Emission Unit Description: Compressed Air Diesel Pump Fugitives  
Raw Material/Fuel: Diesel  
Rated Capacity: 121hp

### **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): 0.1 gr/dscf  
Authority for Requirement: 567 IAC 23.3(2)"a"

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

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

##### Process throughput:

No person shall allow, cause or permit the combustion of number 1 or number 2 fuel oil exceeding a sulfur content of 0.5 percent by weight.  
Authority for Requirement: 567 IAC 23.3(3)"b"(1)

##### Reporting & Recordkeeping:

The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

- 1) The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.  
Authority for Requirement: 567 IAC 22.108(3)

**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: F020**

**Associated Equipment**

Associated Emission Unit ID Numbers: F-PW

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Emission Unit vented through this Emission Point: F-PW  
Emission Unit Description: Plant Wide Fugitives From Wiping & Cleaning  
Raw Material/Fuel: Solvent  
Rated Capacity: Fugitive

**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: Volatile Organic Compound (VOC)  
Emission Limit(s): See Plant Wide Conditions Section  
Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total (Organic) Hazardous Air Pollutants (Total (Organic) HAP)  
Emission Limit(s): See Plant Wide Conditions Section  
Authority for Requirement: See Plant Wide Conditions Section

**Operational Limits & Requirements**

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

Process Throughput:  
See Plant Wide Conditions Section

Reporting & Recordkeeping:  
See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**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: F021 (Internally Vented)**

### **Associated Equipment**

Associated Emission Unit ID Numbers: PB35

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Emission Unit vented through this Emission Point: PB35

Emission Unit Description: Paint Booth #35

Raw Material/Fuel: Paint, Solvent

Rated Capacity: 4 oz/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%

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: 567 IAC 23.4(13)

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

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

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

Process Throughput:

See Plant Wide Conditions Section

Reporting & Recordkeeping:

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**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: F022 (Internally Vented)**

### **Associated Equipment**

Associated Emission Unit ID Numbers: PB36

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Emission Unit vented through this Emission Point: PB36

Emission Unit Description: Paint Booth #36

Raw Material/Fuel: Paint, Solvent

Rated Capacity: 4 oz/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%

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: 567 IAC 23.4(13)

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

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

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

Process Throughput:

See Plant Wide Conditions Section

Reporting & Recordkeeping:

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**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: F023 (Internally Vented)**

### Associated Equipment

Associated Emission Unit ID Numbers: IN22

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Emission Unit vented through this Emission Point: IN22

Emission Unit Description: Repaint Booth #39

Raw Material/Fuel: Paint

Rated Capacity:

### **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): 0.01 gr/dscf

Authority for Requirement: 567 IAC 23.4(13)

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

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

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

#### **Process Throughput:**

See Plant Wide Conditions Section

#### **Reporting & Recordkeeping:**

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**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: F024 (Internally Vented)**

### Associated Equipment

Associated Emission Unit ID Numbers: IN23

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Emission Unit vented through this Emission Point: IN23

Emission Unit Description: Repaint Booth #38

Raw Material/Fuel: Paint

Rated Capacity:

### **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): 0.01 gr/dscf

Authority for Requirement: 567 IAC 23.4(13)

Pollutant: Volatile Organic Compound (VOC)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)

Emission Limit(s): See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

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

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

#### **Process Throughput:**

See Plant Wide Conditions Section

#### **Reporting & Recordkeeping:**

See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**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: F152 (Internally Vented)**

### Associated Equipment

Associated Emission Unit ID Numbers: IN24

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Emission Unit vented through this Emission Point: IN24  
Emission Unit Description: Repaint Booth (Cell 33C)  
Raw Material/Fuel: Paint  
Rated Capacity:

### **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): 0.01 gr/dscf  
Authority for Requirement: 567 IAC 23.4(13)

Pollutant: Volatile Organic Compound (VOC)  
Emission Limit(s): See Plant Wide Conditions Section  
Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)  
Emission Limit(s): See Plant Wide Conditions Section  
Authority for Requirement: See Plant Wide Conditions Section

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

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

Process Throughput:  
See Plant Wide Conditions Section

Reporting & Recordkeeping:  
See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**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: F153 (Internally Vented)**

### Associated Equipment

Associated Emission Unit ID Numbers: IN25

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Emission Unit vented through this Emission Point: IN25  
Emission Unit Description: Repaint Booth (Cell 35)  
Raw Material/Fuel: Paint  
Rated Capacity:

### **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): 0.01 gr/dscf  
Authority for Requirement: 567 IAC 23.4(13)

Pollutant: Volatile Organic Compound (VOC)  
Emission Limit(s): See Plant Wide Conditions Section  
Authority for Requirement: See Plant Wide Conditions Section

Pollutant: Total Hazardous Air Pollutants (Total HAP)  
Emission Limit(s): See Plant Wide Conditions Section  
Authority for Requirement: See Plant Wide Conditions Section

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

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

Process Throughput:  
See Plant Wide Conditions Section

Reporting & Recordkeeping:  
See Plant Wide Conditions Section

Authority for Requirement: See Plant Wide Conditions Section

**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)

## IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22.

### G1. Duty to Comply

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

### G2. Permit Expiration

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

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

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

#### **G4. Annual Compliance Certification**

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. *567 IAC 22.108 (15)"e"*

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

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

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

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.

2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.

3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.

- a. Form 1.0 "Facility Identification";
- b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
- c. Form 5.0 "Title V annual emissions summary/fee"; and
- d. Part 3 "Application certification."

4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:

- a. Form 1.0 "Facility Identification";
- b. Form 5.0 "Title V annual emissions summary/fee";
- c. Part 3 "Application certification."

5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.

6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

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

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

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

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

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

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

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

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

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

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
  - a. The date, place and time of sampling or measurements
  - b. The date the analyses were performed.
  - c. The company or entity that performed the analyses.
  - d. The analytical techniques or methods used.
  - e. The results of such analyses; and
  - f. The operating conditions as existing at the time of sampling or measurement.
  - g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)

2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.

3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:

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

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

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

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

- a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
- b. Compliance test methods specified in 567 Chapter 25; or
- c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.

2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:

- a. Any monitoring or testing methods provided in these rules; or
- b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

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

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

#### **G13. Hazardous Release**

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 281-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). *567 IAC Chapter 131-State Only*

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

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. 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 cap as specified in and in compliance with the Title V permit; and
  - vii. Any permit term or condition no longer applicable as a result of the change.

*567 IAC 22.110(1)*

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*

3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*

4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*

5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

## **G18. Duty to Modify a Title V Permit**

1. Administrative Amendment.

- a. An administrative permit amendment is a permit revision that 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. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. 567 IAC 22.108(7)

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

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

#### **G24. Permit Reopenings**

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or

termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*

2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.

a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;

b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.

c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a"*, *567 IAC 22.108(17)"b"*

3. A permit shall be reopened and revised under any of the following circumstances:

a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;

b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;

c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.

d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*

4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

### **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. At the department's request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In

cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

Stack test notifications, reports and correspondence shall be sent to:

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

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

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

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

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

### **G32. Contacts List**

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

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

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

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

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

#### **Field Office 1**

909 West Main – Suite 4  
Manchester, IA 52057  
(563) 927-2640

#### **Field Office 2**

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

**Field Office 3**

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

**Field Office 5**

401 SW 7<sup>th</sup> Street, Suite I  
Des Moines, IA 50309  
(515) 725-0268

**Polk County Public Works Dept.**

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

**Field Office 4**

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

**Field Office 6**

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

**Linn County Public Health**

Air Quality Branch  
501 13th St., NW  
Cedar Rapids, IA 52405  
(319) 892-6000

## APPENDIX A

- A. 40 CFR 63 Subpart PPPP – National Emission Standard for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products  
<http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr&rgn=div6&view=text&node=40:13.0.1.1.1.22>
- B. 40 CFR 63 Subpart DDDDD – National Emission Standard for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters  
<http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr&rgn=div6&view=text&node=40:14.0.1.1.1.5>
- C. 40 CFR 63 Subpart ZZZZ – National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines  
<http://www.gpo.gov/fdsys/pkg/FR-2013-01-30/pdf/2013-01288.pdf>

## APPENDIX B

### RICE NESHAP Summary of Requirements<sup>1</sup> Emission Point S074

For Emergency Compression Ignition Engines

Existing Stationary Engine ≤500 HP Located at Area Sources of HAP, constructed before June 12, 2006

**NOTE: Only the tables relevant to this source category are bolded. To refer to the regulatory text, please go to [Subpart ZZZZ](#).**

Your **compliance date** is May 3, 2013.

**Emission Limitations, Management Practices and Other Requirements:** 63.6603(a), Table 2d

**§ 63.6603 What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?**

(a) If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in **Table 2d** to this subpart and the operating limitations in Table 2b to this subpart which apply to you. (Note: No operating limitations apply to engines addressed in this document).

**Operating Limitations:** No Requirements

**Fuel Requirements:** For engines greater than 100 HP, <30 l/cyl AND operated or contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in § 63.6640(f)(2)(ii) and (iii) or that operate for the purpose specified in § 63.6640(f)(4)(ii): 63.6604(b)

**§ 63.6604 What fuel requirements must I meet if I own or operate a stationary CI RICE?**

(b) Beginning January 1, 2015, if you own or operate an existing emergency CI stationary RICE with a site rating of more than 100 brake HP and a displacement of less than 30 liters per cylinder that uses diesel fuel and operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in § 63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in § 63.6640(f)(4)(ii), you must use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted.

**Performance Tests:** No Requirements

<sup>1</sup> Disclaimer: The content provided in this software tool is intended solely as assistance for potential reporters to aid in assessing requirements for compliance under the reciprocating internal combustion engines (RICE) National Emissions Standards for Hazardous Air Pollutants, 40 CFR Part 63 Subpart ZZZZ. Any variation between the rule and the information provided in this tool is unintentional, and, in the case of such variations, the requirements of the rule govern. Use of this tool does not constitute an assessment by the EPA of the applicability of the rule to any particular facility. In any particular case, the EPA will make its assessment by applying the law and regulations to the specific facts of the case.

**Monitoring, Installation, Collection, Operation and Maintenance Requirements:**  
63.6625(e), (f), (h), (i)

**§ 63.6625 What are my monitoring, installation, collection, operation, and maintenance requirements?**

(e) If you own or operate any of the following stationary RICE, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions:

(3) An existing emergency or black start stationary RICE located at an area source of HAP emissions;

(f) If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing emergency stationary RICE located at an area source of HAP emissions, you must install a non-resettable hour meter if one is not already installed.

(h) If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and **2d** to this subpart apply.

(i) If you own or operate a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to this subpart or in items 1 or 4 of **Table 2d** to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and **2d** to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or **2d** to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

**Initial Compliance:** No Requirements

**Continuous Compliance:** 63.6605, 63.6640

**§ 63.6605 What are my general requirements for complying with this subpart?**

(a) You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times.

(b) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

**§ 63.6640 (a)** You must demonstrate continuous compliance with each emission limitation and operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and **Table 2d** to this subpart that apply to you according to methods specified in **Table 6** to this subpart.

(c) N/A.

(e) You must also report each instance in which you did not meet the requirements in **Table 8** to this subpart that apply to you. If you own or operate a new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a new or reconstructed stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart: An existing 2SLB stationary RICE, an existing 4SLB stationary RICE, an existing emergency stationary RICE, an existing limited use stationary RICE, or an existing stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis. If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart, except for the initial notification requirements: a new or reconstructed stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new or reconstructed emergency stationary RICE, or a new or reconstructed limited use stationary RICE.

(f) If you own or operate an emergency stationary RICE, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1) through (4) of this section. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in nonemergency situations for 50 hours per year, as described in paragraphs (f)(1) through (4) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (4) of this section, the engine will not

be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

(1) There is no time limit on the use of emergency stationary RICE in emergency situations.

(2) You may operate your emergency stationary RICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (f)(3) and (4) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).

(i) Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.

(ii) Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see § 63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.

(iii) Emergency stationary RICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

(3) n/a

(4) Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraphs (f)(4)(i) and (ii) of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(i) Prior to May 3, 2014, the 50 hours per year for non-emergency situations can be used for peak shaving or nonemergency demand response to generate income for a facility, or to otherwise supply power as part of a financial arrangement with another entity if the engine is operated as part of a peak shaving (load management program) with the local distribution system operator and the power is provided only to the facility itself or to support the local distribution system.

(ii) The 50 hours per year for nonemergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

(A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.

(B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

(C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

(D) The power is provided only to the facility itself or to support the local transmission and distribution system.

(E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

**Notification Requirements:** No Requirements

**Recordkeeping Requirements:** 63.6655, except 63.6655 (c)

### **§ 63.6655 What records must I keep?**

(a) If you must comply with the emission and operating limitations, you must keep the records described in paragraphs (a)(1) through (a)(5), (b)(1) through (b)(3) and (c) of this section.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in §63.10(b)(2)(xiv).

(2) Records of the occurrence and duration of each malfunction of operation ( *i.e.*, process equipment) or the air pollution control and monitoring equipment.

(3) Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii).

(4) Records of all required maintenance performed on the air pollution control and monitoring equipment.

(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

**(d)** You must keep the records required in **Table 6** of this subpart to show continuous compliance with each emission or operating limitation that applies to you.

**(e)** You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE;

(2) An existing stationary emergency RICE.

(3) An existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in **Table 2d** to this subpart.

**(f)** If you own or operate any of the stationary RICE in paragraphs (f)(1) through (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in § 63.6640(f)(2)(ii) or (iii) or §63.6640(f)(4)(ii), the owner or operator must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes.

(2) An existing emergency stationary RICE located at an area source of HAP emissions that does not meet the standards applicable to non-emergency engines.

**Reporting Requirements:** Footnote 2 of Table 2d; for engines greater than 100 HP AND operated or contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in § 63.6640(f)(2)(ii) and (iii) or that operate for the purpose specified in § 63.6640(f)(4)(ii): §63.6650(h)

### **§ 63.6650 What reports must I submit and when?**

Footnote 2 of Table 2d: If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d of this subpart, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management practice should be performed

as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable.

**For engines greater than 100 HP AND** operated or contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in § 63.6640(f)(2)(ii) and (iii) or that operate for the purpose specified in § 63.6640(f)(4)(ii): **§63.6650(h)** If you own or operate an emergency stationary RICE with a site rating of more than 100 brake HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in § 63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in § 63.6640(f)(4)(ii), you must submit an annual report according to the requirements in paragraphs (h)(1) through (3) of this section.

(1) The report must contain the following information:

- (i) Company name and address where the engine is located.
- (ii) Date of the report and beginning and ending dates of the reporting period.
- (iii) Engine site rating and model year.
- (iv) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.
- (v) Hours operated for the purposes specified in § 63.6640(f)(2)(ii) and (iii), including the date, start time, and end time for engine operation for the purposes specified in § 63.6640(f)(2)(ii) and (iii).
- (vi) Number of hours the engine is contractually obligated to be available for the purposes specified in § 63.6640(f)(2)(ii) and (iii).
- (vii) Hours spent for operation for the purpose specified in § 63.6640(f)(4)(ii), including the date, start time, and end time for engine operation for the purposes specified in § 63.6640(f)(4)(ii). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.
- (viii) If there were no deviations from the fuel requirements in § 63.6604 that apply to the engine (if any), a statement that there were no deviations from the fuel requirements during the reporting period.
- (ix) If there were deviations from the fuel requirements in § 63.6604 that apply to the engine (if any), information on the number, duration, and cause of deviations, and the corrective action taken.

(2) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.

(3) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) ([www.epa.gov/cdx](http://www.epa.gov/cdx)). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in § 63.13.

**General Provisions (40 CFR part 63)- Table 8:** Yes, except per 63.6645(a)(5), the following do not apply: 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b)-(e), (g) and (h).

# RICE NESHAP Summary of Requirements<sup>1</sup>

## Emission Point F017

For Non-Emergency CI  $\leq$ 300 HP

Existing Stationary Engine Located at Area Sources of HAP, constructed before June 12,

2006

**NOTE: Only the tables relevant to this source category are bolded. To refer to the regulatory text, please go to [Subpart ZZZZ](#).**

Your **compliance date** is May 3, 2013.

**Emission Limitations, Management Practices and Other Requirements:** 63.6603(a), Table 2d

**§ 63.6603 What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?**

(a) If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in **Table 2d** to this subpart and the operating limitations in Table 2b to this subpart which apply to you (Note: No operating limitations apply to engines addressed in this document).

**Operating Limitations:** No Requirements

**Fuel Requirements:** No Requirements

**Performance Tests:** No Requirements

**Monitoring, Installation, Collection, Operation and Maintenance Requirements:** 63.6625(e), (h), (i); 63.6625(g) for engines  $\geq$ 300 HP

**§ 63.6625 What are my monitoring, installation, collection, operation, and maintenance requirements?**

(e) If you own or operate any of the following stationary RICE, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions:

<sup>1</sup> Disclaimer: The content provided in this software tool is intended solely as assistance for potential reporters to aid in assessing requirements for compliance under the reciprocating internal combustion engines (RICE) National Emissions Standards for Hazardous Air Pollutants, 40 CFR Part 63 Subpart ZZZZ. Any variation between the rule and the information provided in this tool is unintentional, and, in the case of such variations, the requirements of the rule govern. Use of this tool does not constitute an assessment by the EPA of the applicability of the rule to any particular facility. In any particular case, the EPA will make its assessment by applying the law and regulations to the specific facts of the case.

(4) An existing non-emergency, non-black start stationary CI RICE with a site rating less than or equal to 300 HP located at an area source of HAP emissions;

**(h)** If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and **2d** to this subpart apply.

**(i)** If you own or operate a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to this subpart or in items 1 or 4 of **Table 2d** to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and **2d** to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

**For engines less than or equal to 300 HP:** **(g)** If you own or operate an existing non-emergency, non-black start CI engine greater than or equal to 300 HP that is not equipped with a closed crankcase ventilation system, you must comply with either paragraph (g)(1) or paragraph (2) of this section. Owners and operators must follow the manufacturer's specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters, or can request the Administrator to approve different maintenance requirements that are as protective as manufacturer requirements. Existing CI engines located at area sources in areas of Alaska that meet either § 63.6603(b)(1) or § 63.6603(b)(2) do not have to meet the requirements of this paragraph (g). Existing CI engines located on offshore vessels that meet § 63.6603(c) do not have to meet the requirements of this paragraph (g).

(1) Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere, or

(2) Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates and metals.

**Initial Compliance:** No Requirements

**Continuous Compliance:** 63.6605, 63.6640

**§ 63.6605 What are my general requirements for complying with this subpart?**

(a) You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times.

(b) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

**§ 63.6640 How do I demonstrate continuous compliance with the emission limitations and operating limitations?**

(a) You must demonstrate continuous compliance with each emission limitation and operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and **Table 2d** to this subpart that apply to you according to methods specified in **Table 6** to this subpart.

(d) For new, reconstructed, and rebuilt stationary RICE, deviations from the emission or operating limitations that occur during the first 200 hours of operation from engine startup (engine burn-in period) are not violations. Rebuilt stationary RICE means a stationary RICE that has been rebuilt as that term is defined in 40 CFR 94.11(a).

(e) You must also report each instance in which you did not meet the requirements in Table 8 (see section on General Provisions below) to this subpart that apply to you. If you own or operate a new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a new or reconstructed stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart: An existing 2SLB stationary RICE, an existing 4SLB stationary RICE, an existing emergency stationary RICE, an existing limited use stationary RICE, or an existing stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis. If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart, except for the initial notification requirements: a new or reconstructed stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new or reconstructed emergency stationary RICE, or a new or reconstructed limited use stationary RICE.

**Notification Requirements:** No Requirements

**Recordkeeping Requirements:** 63.6655, except 63.6655(c) and (f)

**§ 63.6655 What records must I keep?**

(a) If you must comply with the emission and operating limitations, you must keep the records described in paragraphs (a)(1) through (a)(5), (b)(1) through (b)(3) and (c) of this section.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in §63.10(b)(2)(xiv).

(2) Records of the occurrence and duration of each malfunction of operation ( *i.e.*, process equipment) or the air pollution control and monitoring equipment.

(3) Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii).

(4) Records of all required maintenance performed on the air pollution control and monitoring equipment.

(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

(c) N/A

(d) You must keep the records required in **Table 6** of this subpart to show continuous compliance with each emission or operating limitation that applies to you.

(e) You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE;

(3) An existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to this subpart.

**Reporting Requirements:** No Requirements

**General Provisions (40 CFR part 63)- see Table 8:** Yes, except per 63.6645(a)(5), the following do not apply: 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b)-(e), (g) and (h).