

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

**Name of Permitted Facility: John Deere Ottumwa Works
Facility Location: 928 East Vine Street, Ottumwa, IA 52501**

**Air Quality Operating Permit Number: 03-TV-028R2-M002
Expiration Date: March 8, 2020
Permit Renewal Application Deadline: September 8, 2019**

**EIQ Number: 92-1316
Facility File Number: 90-01-003**

Responsible Official

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Permit Contact Person for the Facility

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

For the Director of the Department of Natural Resources

Lori Hanson, Supervisor of Air Operating Permits Section

Date

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Abbreviations

acfm.....	actual cubic feet per minute
CFR.....	Code of Federal Regulation
CE.....	control equipment
CEM.....	continuous emission monitor
CO _{2e}	Equivalent Carbon Dioxide
°F.....	degrees Fahrenheit
EIQ.....	emissions inventory questionnaire
EP.....	emission point
EU.....	emission unit
gal/hr.....	gallons per hour
gr./dscf.....	grains per dry standard cubic foot
IAC.....	Iowa Administrative Code
DNR.....	Iowa Department of Natural Resources
MVAC.....	motor vehicle air conditioner
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
PSD.....	Prevention of Significant Deterioration
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 ₁₀	particulate matter ten microns or less in diameter
SO ₂	sulfur dioxide
NO _x	nitrogen oxides
VOC.....	volatile organic compound
CO.....	carbon monoxide
HAP.....	hazardous air pollutant

I. Facility Description and Equipment List

Facility Name: John Deere Ottumwa Works

Permit Number: 03-TV-028R2-M002

Facility Description: Manufacture of Farm Machinery and Equipment (SIC 3523)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
RIM MOLD/WAX 1	RIM MOLD/WAX 1	RIM Mold/Wax 1	02-A-151-S5
RIM OVEN 1	RIM OVEN 1	RIM Oven 1	02-A-149-S1
C3PS-3-B	C3PS	RIM Adhesive Booth	87-A-029-S4
RRHA	RRHA	RIM Holding Area	02-A-148-S3
SC	SC	Storage Cabinet	02-A-272-S1
C2PSCK	C2PSCK	C2 Paint Kitchen 1	16-A-244
C2PSCK-2	C2PSCK-2	C2 Paint Kitchen 2	99-A-866-S3
C12BO	C12BO	C12 Bake Oven	97-A-636-S3
C12PS-1B	C12PS	C12 Paint System Booth	94-A-263-S7
C12PS-2B			97-A-633-S7
C12PS-3B			97-A-634-S7
C12PS-4B			97-A-635-S7
C12TU	C12TU	Touchup Paint Booth	12-A-588-S2
C9RPS-1	C9RPS	C9 Rework Booth	12-A-403-S1
C9RPS-2	C9AMU	C9 Bake Oven	12-A-404-S1
E2	E2 Wash	E2 Wash System	02-A-016-S5
	E2 Oven	E2 Wash Oven	
E3P-1-O	E3PD	E3 Paint Dip Tank	96-A-439-S4
E3P-2-O			02-A-273-S3
E3P-3-O			02-A-274-S4
E3P-4-O			02-A-275-S4
E3P-5-O			02-A-276-S4
E3P-6-O			02-A-277-S4
E3PS-1B	E3PS	E3 Paint Spray Booth	02-A-183-S4
E3PS-2B			02-A-184-S4
E3PS-3B			02-A-549-S4
E3PS-4B			02-A-550-S4
E4 Oven	E4 Oven	E4 Paint Line Oven	02-A-042
L4PS-1-B	L4PS	L4 Paint System Spray Booth	86-A-004-S7
L4PS-2-B			02-A-185-S6
L4PS-3-B			04-A-608-S4
WPR	WPR	Production Welding	Exempt
MA	MA	Misc. Adhesive Usage	Exempt
MPS	MPS	Misc. Paint Usage	Exempt

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
C4PS1	C4PS	C4 Paint Booth	09-A-498-S1
C4PS2			09-A-499-S1
C4PS3			09-A-500-S1
C4PS4			09-A-501-S1
TC9D	TC9D	Diesel Fuel Tank	Exempt
TPWO	TPWO	Waste Oil Tank	Exempt
TM3G	TM3G	Gasoline Tank	Exempt
HYGARD	HYGARD	Hy-Gard Oil Tank	Exempt
UO	UO	Used Oil (Coolant) Tank	Exempt
WW28	WW28	Wastewater Tank T028	Exempt
WW29	WW29	Wastewater Tank T029	Exempt
C2 RP Tank	C2 RP Tank	Rust Preventative Tank in C2 Building	Exempt
LASERS	LASERS	Laser Cutting Facility-Wide	Exempt
EGEN	EGEN	Emergency Generator Engine	Exempt
C EGEN	C EGEN	Emergency Generator in C Building	Exempt
STILL	STILL	Solvent Still	Exempt
DEBUR	DEBUR	Deburring Machine	Exempt
C9 KIT	C9 KIT	C9 Paint Kitchen	Exempt
E3 KIT	E3 KIT	E3 Paint Kitchen	Exempt
W3 KIT	W3 KIT	W3 Paint Kitchen	Exempt
W4 CHEM	W4 CHEM	W4 Chemical Storage	Exempt
3D PRINT 1	3D PRINT 1	3D Print 001 (Zortrax M200)	Exempt
3D PRINT 2	3D PRINT 2	3D Print 002 (Markforged Mark One)	Exempt
3D PRINT 3	3D PRINT 3	3D Print 003 (Lulzbot Taz6, Serial No. KT-PR0041NA-15270)	Exempt
3D PRINT 4	3D PRINT 4	3D Print 004 (Lulzbot Taz6, Serial No. KT-PR0041NA-15149)	Exempt
3D PRINT 7	3D PRINT 7	3D Print 007 (Stratasys Objet30 Pro)	Exempt
3D PRINT8	3D PRINT8	3D Print 008 (Ultimaker 3)	Exempt
C7 WASH BAY	C7 WASH BAY	C7 Wash Bay	Exempt
GHG	GHG	Space Heaters and Water Heaters (individually less than 10 MMBtu/hr)	Exempt
C3AL	C3AL	C3 Aluminum Oxide Blasting	Exempt
C3SB	C3SB	C3 Shot Blast	Exempt

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
C3 CT	C3 Cooling Tower
E3 CT	E3 Cooling Tower
L3 CT	L3 Cooling Tower
RIM WASH	RIM Wash Tank
RIM RINSE	RIM Rinse Tank
RIM ISO TANK	RIM Isocyanate Tank
RPM POLY TANK	RIM Polyol Tank

II. Plant-Wide Conditions

Facility Name: John Deere Ottumwa Works
Permit Number: 03-TV-028R2-M002

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

Permit Duration

The term of this permit is: Five (5) years from permit issuance.
Commencing on: March 9, 2015
Ending on: March 8, 2020

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

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 (SO₂): 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 - A person shall take reasonable precautions to prevent particulate matter from becoming airborne in quantities sufficient to cause a nuisance as defined in Iowa Code section 657.1 when the person allows, causes or permits any materials to be handled, transported or stored or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved roads. Ordinary travel includes routine traffic and

road maintenance activities such as scarifying, compacting, transporting road maintenance surfacing material, and scraping of the unpaved public road surface. (The preceding sentence is State Only) All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The public highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not be limited to, the following procedures.

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

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

Table 1 – DNR Construction Permits Establishing Facility-Wide VOC and HAP Limits

Emission Point Number	Emission Unit Number(s)	Emission Unit Description	DNR Construction Permit Number
RIM MOLD/WAX 1	RIM MOLD/WAX 1	RIM Mold/Wax 1	02-A-151-S5
RRHA	RRHA	RIM Holding Area	02-A-148-S3
SC	SC	Storage Cabinet	02-A-272-S1
C3PS-3-B	C3PS	RIM Adhesive Booth	87-A-029-S4
C12PS-1B	C12PS	C12 Paint System Booth	94-A-263-S7
C12PS-2B			97-A-633-S7
C12PS-3B			97-A-634-S7
C12PS-4B			97-A-635-S7
C12TU	C12TU	Touchup Paint Booth	12-A-588-S2
C9RPS-1	C9RPS	C9 Rework Booth	12-A-403-S1
C9RPS-2	C9AMU	C9 Bake Oven	12-A-404-S1
E3P-1-O	E3PD	E3 Paint Dip Tank	96-A-439-S4
E3P-2-O			02-A-273-S3
E3P-3-O			02-A-274-S4
E3P-4-O			02-A-275-S4
E3P-5-O			02-A-276-S4
E3P-6-O			02-A-277-S4
E3PS-1B	E3PS	E3 Paint Spray Booth	02-A-183-S3

E3PS-2B			02-A-184-S3
E3PS-3B			02-A-549-S3
E3PS-4B			02-A-550-S3
L4PS-1-B	L4PS	L4 Paint System Spray Booth	86-A-004-S7
L4PS-2-B			02-A-185-S6
L4PS-3-B			04-A-608-S4
C4PS1	C4PS	C4 Paint Booth	09-A-498-S1
C4PS2			09-A-499-S1
C4PS3			09-A-500-S1
C4PS4			09-A-501-S1

Facility Wide Emission Limits

The atmospheric emissions from the facility shall not exceed the following:

Pollutant: VOC

Emission Limit(s): 245 tons per rolling 12-month period

Authority for Requirement: See DNR Construction Permits in Table 1

Pollutant: Hazardous Air Pollutants (Single)

Emission Limit(s): 9.4 tons per rolling 12-month period

Authority for Requirement: See DNR Construction Permits in Table 1

Pollutant: Hazardous Air Pollutants (Total)

Emission Limit(s): 24.4 tons per rolling 12-month period

Authority for Requirement: See DNR Construction Permits in Table 1

The total facility-wide natural gas usage shall not exceed 1,500,000,000 standard cubic feet per 12 month rolling period.

Authority for Requirement: DNR Construction Permit 97-A-636-S3

Facility Wide Reporting & Recordkeeping Requirements

All records as required by this permit shall be kept on site for a minimum of five (5) years and shall be available for inspection by the DNR.

Natural Gas

A. The permittee shall maintain the following monthly records:

- i. the total amount of natural gas used at the facility; and,
- ii. a determination of the 12-month rolling total amount of natural gas used at the facility.

Authority for Requirement: DNR Construction Permit 97-A-636-S3

Volatile Organic Compounds (VOCs) and Hazardous Air Pollutants (HAPs)

- A. The permittee (or owner or operator) shall use the following methods to calculate VOC and HAP emissions to show compliance with the facility wide emission limits:
- (1) For VOC-containing or HAP-containing process materials (paints, coatings, solvents, hardeners, sealers, adhesives, release agents, etc.), excluding the materials used in the RIM molds, the facility shall assume all VOC or HAP in the material is emitted. The emissions may be considered emitted on the day the materials are delivered to the facility, the emission unit, or to the production line.
 - (2) For Natural Gas combusted in external combustion sources, the facility shall use the emission factors and emission estimation methods in AP 42, Section 1.4, Natural Gas Combustion, or more representative emission factors if available.
 - (3) For Fuel Oil combusted in external combustion sources, the facility shall use the emission factors and emission estimation methods in AP 42, Section 1.3, Fuel Oil Combustion, or more representative emission factors if available.
 - (4) For fuel combusted in internal combustion engines, the facility shall use the emission factors and emission estimation methods in AP 42, Chapter 3, Stationary Internal Combustion Sources, Sections 3.2 - 3.4, or more representative emission factors if available.
 - (5) For Welding Wire/Electrodes, the facility shall use the emission factors and emission estimation methods in AP 42, Section 12.19, Electric Arc Welding, or more representative emission factors if available.
 - (6) For VOC-containing or HAP-containing materials injected into the RIM molds, the facility shall use manufacture's data to calculate VOC and HAP (MDI) emissions, or more representative emission factors if available.
- B. The permittee (or owner or operator) shall maintain the following daily records:
- (1) The identification of each material that contains or emits VOC or HAP used at the facility. These materials shall include, but not necessarily limited to: paints, coatings, solvents, hardeners, sealers, adhesives, release agents, fuel, welding wire/electrodes, reaction injection molding materials, etc.
 - (2) The amount, in gallons, of each material that contains or emits VOC or HAP used at the facility.
 - (3) The permittee shall document the method per this section (B) of this permit used to calculate VOC and HAP emissions for each material used at the facility.
- C. The permittee shall maintain the following monthly records:
- (1) The identification of each material that contains or emits VOC or HAP used at the facility. These materials shall include but not necessarily limited to paints, solvents, hardeners, sealers, adhesives, fuel, welding wire/electrodes, etc.
 - (2) The amount, in gallons, of each material that contains or emits VOC or HAP used at the facility.
 - (3) The permittee shall document the method per this section (C) of this permit used to calculate VOC and HAP emissions for each material used at the facility.
 - (4) The amount of VOC emissions from this facility, in tons.
 - (5) The 12-month rolling total of the amount of VOC emissions from this facility, in tons.
 - (6) The amount of all cumulative HAP emissions from this facility, in tons.
 - (7) The 12-month rolling total of the amount of cumulative HAP emissions from all this facility, in tons.

- (8) The amount of emissions of each individual HAP from this facility, in tons.
 - (9) The 12-month rolling total of the amount of emissions of each individual HAP from this facility, in tons.
- D. If the 12-month rolling total of the VOC emissions exceeds 196.0 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of VOC emissions from this facility, in tons.
 - (2) The 365-day rolling total of the amount of VOC emissions from this facility, in tons.
 - (3) Daily calculations for VOC emissions shall continue until the 365-day rolling total of the amount of VOC emissions from this facility drops below 196.0 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 this section (D) of this permit. If the emissions once again exceed 196.0 tons, daily recordkeeping will be required per this section (D) of this permit.
- E. If the 12-month rolling total of all cumulative HAP emissions exceeds 19.5 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of all cumulative HAP emissions from this facility, in tons.
 - (2) The 365-day rolling total of the amount of cumulative HAP emissions from this facility, in tons.
 - (3) Daily calculations of all cumulative HAP emissions shall continue until the 365-day rolling total of the amount of all cumulative HAP emissions from this facility drops below 19.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of cumulative HAP emissions will cease per this section (E) of this permit. . If the emissions once again exceed 19.5 tons, daily recordkeeping will be required per this section (E) of this permit.
- F. If the 12-month rolling total of any individual HAP emitted exceeds 7.5 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of emissions of each individual HAP from this facility, in tons.
 - (2) The 365-day rolling total of the amount of emissions of each individual HAP from this facility, in tons.
 - (3) Daily calculations of individual HAP emissions shall continue until the 365-day rolling total of the amount of emissions of each individual HAP from this facility drops below 7.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of emissions of each individual HAP will cease per this section (F) of this permit. If the emissions once again exceed 7.5 tons, daily recordkeeping will be required per this section (F) of this permit.
- G. The permittee may take credit for any waste VOC shipped off-site. The permittee shall record the amount of 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 a 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.

H. The owner or operator shall operate and maintain the control equipment to maintain the designed performance of the equipment.

(1) The permittee shall maintain a record of all inspections/maintenance and any action resulting from the inspections/maintenance of the control equipment.

Note: VOC-containing or HAP-containing material shall include **all** materials which contain organics that are not listed as non-VOCs or contain listed HAPs (either organics or metals). These materials shall include but not necessarily limited to paints, coatings, solvents, hardeners, sealers, adhesives, release agents, etc.

Authority for Requirement: DNR Construction Permits 12-A-403-S1, 12-A-404-S1 and 12-A-588-S2

40 CFR Part 63 Subpart A

This facility is an affected source and these *General Provisions* apply to the facility. The affected units are EU EGEN, EU CGEN, and EU TM3G.

See Appendix A for a link to the Standard.

Authority for Requirement: 40 CFR 63 Subpart A
567 IAC 23.1(4)"a"

40 CFR 63 Subpart ZZZZ

The Emergency Generator Engines (EU EGEN, EU C EGEN) is subject to the requirements of 40 CFR 63 of Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE).

See Appendix A for a link to the Standard.

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

40 CFR 63 Subpart CCCCCC

The Gasoline Tank (EU TM3G) is subject to the requirements of 40 CFR 63 Subpart CCCCCC, National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities.

See Appendix A for a link to the Standard.

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

40 CFR Part 63, Subpart HHHHHH

This facility has emission sources of the source type regulated by the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources of HAPs (40 CFR 63 Subpart HHHHHH; 567 IAC 23.1(4)"eh"). To be subject to this standard the unit would have to use coatings that contain the target HAPs identified in the standard. Based on the information provided by the facility, the coatings used in this facility do not contain these target HAPs. Therefore, at this time, the units

at this facility are not subject to this standard. If the material used changes, these units may become subject to this standard.

See Appendix A for a link to the Standard.

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

III. Emission Point-Specific Conditions

Facility Name: John Deere Ottumwa Works
Permit Number: **03-TV-028R2-M001**

Emission Point ID Number: RIM MOLD/WAX 1

Associated Emission Unit ID Number: RIM MOLD/WAX 1
Emissions Control Equipment ID Number: RIM M.1
Emissions Control Equipment Description: Mat Filter

Emission Units vented through this Emission Point: RIM MOLD/WAX 1
Emission Unit Description: RIM MOLD/WAX 1
Raw Material: Polyol and Isocyanate
Rated Capacity: 83.5 gal/hr, 3.38 lb/hr of Wax

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 % ⁽¹⁾

Authority for Requirement: DNR Construction Permit 02-A-151-S5
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀

Emission Limit(s): 0.81 lb/hr

Authority for Requirement: DNR Construction Permit 02-A-151-S5

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: DNR Construction Permit 02-A-151-S5
567 IAC 23.4(13)

Pollutant: VOC

Emission Limit(s): 245 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Single)

Emission Limit(s): 9.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Total)

Emission Limit(s): 24.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The permittee (or owner or operator) shall use the following methods to calculate VOC and HAP emissions to show compliance with the facility wide emission limits:
 - (1) For VOC-containing or HAP-containing process materials (paints, coatings, solvents, hardeners, sealers, adhesives, release agents, etc.), excluding the materials used in the RIM molds, the facility shall assume all VOC or HAP in the material is emitted. The emissions may be considered emitted on the day the materials are delivered to the facility, the emission unit, or to the production line.
 - (2) For Natural Gas combusted in external combustion sources, the facility shall use the emission factors and emission estimation methods in AP 42, Section 1.4, Natural Gas Combustion, or more representative emission factors if available.
 - (3) For Fuel Oil combusted in external combustion sources, the facility shall use the emission factors and emission estimation methods in AP 42, Section 1.3, Fuel Oil Combustion, or more representative emission factors if available.
 - (4) For fuel combusted in internal combustion engines, the facility shall use the emission factors and emission estimation methods in AP 42, Chapter 3, Stationary Internal Combustion Sources, Sections 3.2 - 3.4, or more representative emission factors if available.
 - (5) For Welding Wire/Electrodes, the facility shall use the emission factors and emission estimation methods in AP 42, Section 12.19, Electric Arc Welding, or more representative emission factors if available.
 - (6) For VOC-containing or HAP-containing materials injected into the RIM molds, the facility shall use manufacture's data to calculate VOC and HAP (MDI) emissions, or more representative emission factors if available.
- B. The permittee (or owner or operator) shall maintain the following daily records:
 - (1) The identification of each material that contains or emits VOC or HAP used at the facility. These materials shall include, but not necessarily limited to: paints, coatings, solvents, hardeners, sealers, adhesives, release agents, fuel, welding wire/electrodes, reaction injection molding materials, etc.

- (2) The amount, in gallons, of each material that contains or emits VOC or HAP used at the facility.
 - (3) The permittee shall document the method and/or emission factors per this section (B) of this permit used to calculate VOC and HAP emissions for each material used at the facility.
- C. The permittee shall maintain the following monthly records:
- (1) The identification of each material that contains or emits VOC or HAP used at the facility. These materials shall include, but not necessarily limited to: paints, coatings, solvents, hardeners, sealers, adhesives, release agents, fuel, welding wire/electrodes, reaction injection molding materials, etc.
 - (2) The amount, in gallons, of each material that contains or emits VOC or HAP used at the facility.
 - (3) The permittee shall document the method per this section (C) of this permit used to calculate VOC and HAP emissions for each material used at the facility.
 - (4) The amount of VOC emissions from this facility, in tons.
 - (5) The 12-month rolling total of the amount of VOC emissions from this facility, in tons.
 - (6) The amount of all cumulative HAP emissions from this facility, in tons.
 - (7) The 12-month rolling total of the amount of cumulative HAP emissions from all this facility, in tons.
 - (8) The amount of emissions of each individual HAP from this facility, in tons.
 - (9) The 12-month rolling total of the amount of emissions of each individual HAP from this facility, in tons.
- D. If the 12-month rolling total of the VOC emissions exceeds 196.0 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of VOC emissions from this facility, in tons.
 - (2) The 365-day rolling total of the amount of VOC emissions from this facility, in tons.
 - (3) Daily calculations for VOC emissions shall continue until the 365-day rolling total of the amount of VOC emissions from this facility drops below 196.0 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 this section (D) of this permit. If the emissions once again exceed 196.0 tons, daily recordkeeping will be required per this section (D) of this permit.
- E. If the 12-month rolling total of all cumulative HAP emissions exceeds 19.5 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of all cumulative HAP emissions from this facility, in tons.
 - (2) The 365-day rolling total of the amount of cumulative HAP emissions from this facility, in tons.
 - (3) Daily calculations of all cumulative HAP emissions shall continue until the 365-day rolling total of the amount of all cumulative HAP emissions from this facility drops below 19.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of cumulative HAP emissions will cease per this section (E) of this permit. . If the emissions once again exceed 19.5 tons, daily recordkeeping will be required per this section (E) of this permit.
- F. If the 12-month rolling total of any individual HAP emitted exceeds 7.5 tons, the

permittee shall immediately begin keeping the following daily records:

- (1) The amount of emissions of each individual HAP from this facility, in tons.
- (2) The 365-day rolling total of the amount of emissions of each individual HAP from this facility, in tons.
- (3) Daily calculations of individual HAP emissions shall continue until the 365-day rolling total of the amount of emissions of each individual HAP from this facility drops below 7.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of emissions of each individual HAP will cease per this section (F) of this permit. If the emissions once again exceed 7.5 tons, daily recordkeeping will be required per this section (F) of this permit.

G. The permittee may take credit for any waste VOC shipped off-site. The permittee shall record the amount of 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 a 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.

H. Only one spray gun shall be operated to apply wax in RIM Mold/Wax 1.

I. The owner or operator shall operate and maintain the control equipment to maintain the designed performance of the equipment.

- (1) The permittee shall maintain a record of all inspections/maintenance and any action resulting from the inspections/maintenance of the control equipment.

Note: VOC-containing or HAP-containing material shall include **all** materials which contain organics that are not listed as non-VOC's or contain listed HAP's (either organics or metals). These materials shall include but not necessarily limited to paints, coatings, solvents, hardeners, sealers, adhesives, release agents, etc.

Authority for Requirement: DNR Construction Permits in 02-A-151-S5

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from the ground): 25.5

Stack Opening (inches, dia): 24

Exhaust Flow Rate (scfm): 9,500

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permits in Table 1: Mold/Wax

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

emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Spray Booth Filter 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.

Recordkeeping and Reporting

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

Quality Control

- The filter equipment shall be operated to maintain the design performance of the equipment.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: RIM OVEN 1

Associated Emission Unit ID Number: RIM OVEN 1

Emission Units vented through this Emission Point: RIM OVEN 1

Emission Unit Description: Natural Gas RIM OVEN

Raw Material: Natural Gas

Rated Capacity: 0.8 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 %⁽¹⁾

Authority for Requirement: DNR Construction Permit 02-A-149-S1
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀

Emission Limit(s): 0.01 lb/hr

Authority for Requirement: DNR Construction Permit 02-A-149-S1

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 02-A-149-S1
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 02-A-149-S1
567 IAC 23.3(3)"e"

Pollutant: VOC

Emission Limit(s): 245 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Single)

Emission Limit(s): 9.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Total)
Emission Limit(s): 24.4 tons per rolling 12-month period (facility-wide)
Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Operational Limits & Requirements

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

Reporting & Recordkeeping:

All records as required by this permit shall be kept on site for a minimum of five (5) years and shall be available for inspection by the DNR.

- A. The permittee shall follow the additional reporting and recordkeeping requirements listed under Plant-Wide Conditions.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from the ground): 25
Stack Opening (inches, dia): 10
Exhaust Flow Rate (scfm): 2,300
Exhaust Temperature (°F): 250
Discharge Style: Vertical obstructed
Authority for Requirement: DNR Construction Permit 02-A-149-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: C3PS-3-B, RRHA, SC

Associated Equipment

Table 1: RIM Adhesive Booth, Holding Area and Storage Cabinet

EP	EU	EU Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
C3PS-3-B	C3PS	RIM Adhesive Booth	CEC3PSWa: Mat Filter	Adhesive	6.09 gal/hr	87-A-029-S4
RRHA	RRHA	RIM Roll Holding Area	NA	RIM Rolls	NA	02-A-148-S3
SC	SC	Storage Cabinet	NA	Adhesives/ Solvents	NA	02-A-272-S1

Applicable Requirements

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

The emissions from EPC3PS-3-B shall not exceed the levels specified below (all VOC and HAP emissions for EP RRHA and EP SC are accounted for through EPC3PS-3-B).

Limits for EP C3PS-3-B only

Pollutant: Opacity

Emission Limit(s): 40 % ⁽¹⁾

Authority for Requirement: DNR Construction Permit 87-A-029-S4
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀

Emission Limit(s): 0.61 lb/hr

Authority for Requirement: DNR Construction Permit 87-A-029-S4

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: DNR Construction Permit 87-A-029-S4
567 IAC 23.4(13)

Limits for all EP in Table 1: RIM Adhesive Booth, Holding Area and Storage Cabinet

Pollutant: VOC

Emission Limit(s): 245 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Single)

Emission Limit(s): 9.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Total)

Emission Limit(s): 24.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The permittee (or owner or operator) shall use the following methods to calculate VOC and HAP emissions to show compliance with the facility wide emission limits:
 - (1) For VOC-containing or HAP-containing process materials (paints, coatings, solvents, hardeners, sealers, adhesives, release agents, etc.), excluding the materials used in the RIM molds, the facility shall assume all VOC or HAP in the material is emitted. The emissions may be considered emitted on the day the materials are delivered to the facility, the emission unit, or to the production line.
 - (2) For Natural Gas combusted in external combustion sources, the facility shall use the emission factors and emission estimation methods in AP 42, Section 1.4, Natural Gas Combustion, or more representative emission factors if available.
 - (3) For Fuel Oil combusted in external combustion sources, the facility shall use the emission factors and emission estimation methods in AP 42, Section 1.3, Fuel Oil Combustion, or more representative emission factors if available.
 - (4) For fuel combusted in internal combustion engines, the facility shall use the emission factors and emission estimation methods in AP 42, Chapter 3, Stationary Internal Combustion Sources, Sections 3.2 - 3.4, or more representative emission factors if available.
 - (5) For Welding Wire/Electrodes, the facility shall use the emission factors and emission estimation methods in AP 42, Section 12.19, Electric Arc Welding, or more representative emission factors if available.
 - (6) For VOC-containing or HAP-containing materials injected into the RIM molds, the facility shall use manufacture's data to calculate VOC and HAP (MDI) emissions, or more representative emission factors if available.
- B. The permittee (or owner or operator) shall maintain the following daily records:
 - (1) The identification of each material that contains or emits VOC or HAP used at the facility. These materials shall include, but not necessarily limited to: paints, coatings, solvents, hardeners, sealers, adhesives, release agents, fuel, welding wire/electrodes, reaction injection molding materials, etc.
 - (2) The amount, in gallons, of each material that contains or emits VOC or HAP used at the facility.
 - (3) The permittee shall document the method per this section (B) of this permit used to calculate VOC and HAP emissions for each material used at the facility.

- C. The permittee shall maintain the following monthly records:
- (1) The identification of each material that contains or emits VOC or HAP used at the facility. These materials shall include but not necessarily limited to paints, solvents, hardeners, sealers, adhesives, fuel, welding wire/electrodes, etc.
 - (2) The amount, in gallons, of each material that contains or emits VOC or HAP used at the facility.
 - (3) The permittee shall document the method per this section (C) of this permit used to calculate VOC and HAP emissions for each material used at the facility.
 - (4) The amount of VOC emissions from this facility, in tons.
 - (5) The 12-month rolling total of the amount of VOC emissions from this facility, in tons.
 - (6) The amount of all cumulative HAP emissions from this facility, in tons.
 - (7) The 12-month rolling total of the amount of cumulative HAP emissions from all this facility, in tons.
 - (8) The amount of emissions of each individual HAP from this facility, in tons.
 - (9) The 12-month rolling total of the amount of emissions of each individual HAP from this facility, in tons.
- D. If the 12-month rolling total of the VOC emissions exceeds 196.0 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of VOC emissions from this facility, in tons.
 - (2) The 365-day rolling total of the amount of VOC emissions from this facility, in tons.
 - (3) Daily calculations for VOC emissions shall continue until the 365-day rolling total of the amount of VOC emissions from this facility drops below 196.0 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 this section (D) of this permit. If the emissions once again exceed 196.0 tons, daily recordkeeping will be required per this section (D) of this permit.
- E. If the 12-month rolling total of all cumulative HAP emissions exceeds 19.5 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of all cumulative HAP emissions from this facility, in tons.
 - (2) The 365-day rolling total of the amount of cumulative HAP emissions from this facility, in tons.
 - (3) Daily calculations of all cumulative HAP emissions shall continue until the 365-day rolling total of the amount of all cumulative HAP emissions from this facility drops below 19.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of cumulative HAP emissions will cease per this section (E) of this permit. . If the emissions once again exceed 19.5 tons, daily recordkeeping will be required per this section (E) of this permit.
- F. If the 12-month rolling total of any individual HAP emitted exceeds 7.5 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of emissions of each individual HAP from this facility, in tons.
 - (2) The 365-day rolling total of the amount of emissions of each individual HAP from this facility, in tons.
 - (3) Daily calculations of individual HAP emissions shall continue until the 365-day rolling total of the amount of emissions of each individual HAP from this facility drops below 7.5 tons for the remainder of the current calendar month plus one

additional calendar month. At that time, rolling daily calculation of emissions of each individual HAP will cease per this section (F) of this permit. If the emissions once again exceed 7.5 tons, daily recordkeeping will be required per this section (F) of this permit.

G. The permittee may take credit for any waste VOC shipped off-site. The permittee shall record the amount of 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 a 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.

H. Only one spray gun may be used in the RIM adhesive spray booth at any one time.

Note: VOC-containing or HAP-containing material shall include **all** materials which contain organics that are not listed as non-VOC's or contain listed HAP's (either organics or metals). These materials shall include but not necessarily limited to paints, coatings, solvents, hardeners, sealers, adhesives, release agents, etc.

Authority for Requirement: 567 IAC 22.108(3)
DNR Construction Permits 87-A-029-S4, 02-A-148-S3

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

EP	Stack Height (ft, from the ground)	Stack Opening (inches)	Exhaust Flow Rate (scfm)	Exhaust Temp. (°F)	Discharge Style	Construction Permit
C3PS-3-B	25.7	32 (diameter)	7,118	73	Vertical Unobstructed	87-A-029-S4
RRHA	21	38 x 38	8,000	70	Horizontal	02-A-148-S3
SC	19	17 x 17	3,850	75	Horizontal	02-A-272-S1

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

Emission Point ID Number: C2PSCK and C2PSCK-2

Associated Equipment

Associated Emission Unit ID Numbers: C2PSCK and C2PSCK-2

Emission Units vented through this Emission Point: C2PSCK and C2PSCK-2

Emission Unit Description: C2 Paint System Kitchen 1 and Kitchen 2

Raw Material: Paint and Solvents

Rated Capacity: NA (Paint and Solvent Storage Area)

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 (VOC and HAP emissions from this emissions unit are accounted for in the permits for the spray booths).

Pollutant: VOC

Emission Limit(s): 245 tons per rolling 12-month period (facility-wide) ⁽¹⁾

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Single) ⁽¹⁾

Emission Limit(s): 9.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Total) ⁽¹⁾

Emission Limit(s): 24.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

⁽¹⁾ VOC and HAP emissions are assumed to be released through Spray Paint Booths C4 and C12

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP	Stack Height (ft, from the ground)	Stack Opening (inches)	Exhaust Flowrate (scfm)	Exhaust Temp. (°F)	Discharge Style	Construction Permit
C2PSCK	25	8	560	68	Vertical, unobstructed	16-A-244
C2PSCK-2	17	12	550	70	Vertical, unobstructed	99-A-866-S3

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

emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

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: C12BO

Associated Emission Unit ID Number: C12BO

Emission Units vented through this Emission Point: C12BO

Emission Unit Description: C12 Bake Oven

Raw Material: Natural Gas

Rated Capacity: 8 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 % ⁽¹⁾

Authority for Requirement: DNR Construction Permit 97-A-636-S3
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀

Emission Limit(s): 0.076 lb/hr

Authority for Requirement: DNR Construction Permit 97-A-636-S3

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 97-A-636-S3
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 97-A-636-S3
567 IAC 23.3(3)"e"

Pollutant: VOC

Emission Limit(s): 245 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Single)

Emission Limit(s): 9.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Total)

Emission Limit(s): 24.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Operational Limits & Requirements

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

Operating limits for this emission unit shall be:

- A. This oven is limited to firing on natural gas only.
- B. The total, facility-wide natural gas usage shall not exceed 1,500,000,000 standard cubic feet (1500 MMcf) per 12-month rolling period.

Authority for Requirement: DNR Construction Permit 97-A-636-S3

Reporting & Recordkeeping:

All records as required by this permit shall be kept on site for a minimum of five (5) years and shall be available for inspection by the DNR.

- A. The permittee shall maintain the following monthly records:
 - i. the total amount of natural gas used at the facility; and,
 - ii. a determination of the 12-month rolling total amount of natural gas used at the facility.

Authority for Requirement: DNR Construction Permit 97-A-636-S3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from the ground): 34

Stack Opening (inches, dia): 36

Exhaust Flow Rate (scfm): 10,300

Exhaust Temperature (°F): 160

Discharge Style: Vertical Obstructed

Authority for Requirement: DNR Construction Permit 97-A-636-S3

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

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 Numbers: C12PS-1-B, C12PS-2-B, C12PS-3-B, C12PS-4-B

Associated Equipment

Table 1: C12 Paint System

EP	EU	EU Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
C12PS-1-B	C12PS	C12 Paint System Booth	C12PSW: Waterwall	Paint, Natural Gas	Four guns at 9.5 gal/hr (each) and Two Burners at 8.95 MMBtu/hr each	94-A-263-S7
C12PS-2-B						97-A-633-S7
C12PS-3-B						97-A-634-S7
C12PS-4-B						97-A-635-S7

Applicable Requirements

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

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

Limits for All Emission Points

Pollutant: Opacity

Emission Limit(s): 40 % ⁽¹⁾

Authority for Requirement: DNR Construction Permits in Table 1: C12 Paint System
567 IAC 23.3(2)"d"

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

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permits in Table 1: C12 Paint System
567 IAC 23.3(3)"e"

Pollutant: VOC

Emission Limit(s): 245 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Single)

Emission Limit(s): 9.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Total)
Emission Limit(s): 24.4 tons per rolling 12-month period (facility-wide)
Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Limits for Emission Points C12PS-1B & C12PS-4B only

Pollutant: PM₁₀
Emission Limit(s): 2.84 lb/hr
Authority for Requirement: DNR Construction Permits 94-A-263-S7 & 97-A-635-S7

Pollutant: Particulate Matter
Emission Limit(s): 2.84 lb/hr, 94.0 tons/yr ⁽²⁾, 0.01 gr/scf
Authority for Requirement: DNR Construction Permits 94-A-263-S7 & 97-A-635-S7
567 IAC 23.4(13)

⁽²⁾ The total uncontrolled emissions of particulate matter from this unit shall not exceed 94.0 tons per daily rolling 365-day period.

Limits for Emission Points C12PS-2B & C12PS-3B only

Pollutant: PM₁₀
Emission Limit(s): 2.47 lb/hr
Authority for Requirement: DNR Construction Permits 97-A-633-S7 & 97-A-634-S7

Pollutant: Particulate Matter
Emission Limit(s): 2.47 lb/hr, 94.0 tons/yr ⁽²⁾, 0.01 gr/scf
Authority for Requirement: DNR Construction Permits 97-A-633-S7 & 97-A-634-S7
567 IAC 23.4(13)

⁽²⁾ The total uncontrolled emissions of particulate matter from this unit shall not exceed 94.0 tons per daily rolling 365-day period.

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The permittee (or owner or operator) shall use the following methods to calculate uncontrolled particulate emissions (PM) from this unit to show compliance the PM emission limit in Section 1 of this permit:

- (1) Uncontrolled particulate emissions for each material shall be calculated using the following equation:

$$E = \frac{G \times C \times (100\% - TE)}{2000}$$

Where:

E = Emissions from use of a particular material.

G = # of gallons of the material sprayed over the previous day or month

C = solids content of the material

TE = transfer efficiency of the process. A value of no greater than 25% shall be used in this calculation.

- (2) For the purposes of calculating emissions, all sprayable particulate containing materials may be considered emitted on the day the materials are delivered to the facility or to the production line.
 - (3) The total uncontrolled particulate emissions of from this unit shall be calculated by summing of emissions from all materials used.
- B. The permittee (or owner or operator) shall use the following methods to calculate VOC and HAP emissions to show compliance with the facility wide emission limits:
- (1) For VOC-containing or HAP-containing process materials (paints, coatings, solvents, hardeners, sealers, adhesives, release agents, etc.), excluding the materials used in the RIM molds, the facility shall assume all VOC or HAP in the material is emitted. The emissions may be considered emitted on the day the materials are delivered to the facility, the emission unit, or to the production line.
 - (2) For Natural Gas combusted in external combustion sources, the facility shall use the emission factors and emission estimation methods in AP 42, Section 1.4, Natural Gas Combustion, or more representative emission factors if available.
 - (3) For Fuel Oil combusted in external combustion sources, the facility shall use the emission factors and emission estimation methods in AP 42, Section 1.3, Fuel Oil Combustion, or more representative emission factors if available.
 - (4) For fuel combusted in internal combustion engines, the facility shall use the emission factors and emission estimation methods in AP 42, Chapter 3, Stationary Internal Combustion Sources, Sections 3.2 - 3.4, or more representative emission factors if available.
 - (5) For Welding Wire/Electrodes, the facility shall use the emission factors and emission estimation methods in AP 42, Section 12.19, Electric Arc Welding, or more representative emission factors if available.
 - (6) For VOC-containing or HAP-containing materials injected into the RIM molds, the facility shall use manufacture's data to calculate VOC and HAP (MDI) emissions, or more representative emission factors if available.
- C. The permittee (or owner or operator) shall maintain the following daily records:
- (1) The identification of each material that contains or emits VOC or HAP used at the facility. These materials shall include, but not necessarily limited to: paints, coatings, solvents, hardeners, sealers, adhesives, release agents, fuel, welding wire/electrodes, reaction injection molding materials, etc.
 - (2) The amount, in gallons, of each material that contains or emits VOC or HAP used at the facility.
 - (3) The permittee shall document the method per this section (C) of this permit used to calculate VOC and HAP emissions for each material used at the facility.
 - (4) The identification of each material that contains or emits particulate material (solids)

- sprayed in this unit. These materials shall include, but not necessarily limited to, paints, hardeners, sealers, etc.
- (5) The amount, in gallons, of each solids containing material sprayed in this unit.
- D. The permittee shall maintain the following monthly records:
- (1) The identification of each material that contains or emits VOC or HAP used at the facility. These materials shall include but not necessarily limited to paints, solvents, hardeners, sealers, adhesives, fuel, welding wire/electrodes, etc.
 - (2) The amount, in gallons, of each material that contains or emits VOC or HAP used at the facility.
 - (3) The permittee shall document the method per this section (D) of this permit used to calculate VOC and HAP emissions for each material used at the facility.
 - (4) The identification of each material that contains or emits particular material (solids) sprayed in this unit. These materials shall include, but not necessarily limited to, paints, hardeners, sealers, etc.
 - (5) The amount, in gallons, of each solids containing material sprayed in this unit.
 - (6) The amount of VOC emissions from this facility, in tons.
 - (7) The 12-month rolling total of the amount of VOC emissions from this facility, in tons.
 - (8) The amount of all cumulative HAP emissions from this facility, in tons.
 - (9) The 12-month rolling total of the amount of cumulative HAP emissions from all this facility, in tons.
 - (10) The amount of emissions of each individual HAP from this facility, in tons.
 - (11) The 12-month rolling total of the amount of emissions of each individual HAP from this facility, in tons.
 - (12) The amount of uncontrolled particulate emissions from this unit, in tons.
 - (13) The 12-month rolling total of the amount of uncontrolled particulate emissions from this unit, in tons.
- E. If the 12-month rolling total of the VOC emissions exceeds 196.0 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of VOC emissions from this facility, in tons.
 - (2) The 365-day rolling total of the amount of VOC emissions from this facility, in tons.
 - (3) Daily calculations for VOC emissions shall continue until the 365-day rolling total of the amount of VOC emissions from this facility drops below 196.0 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 this section (D) of this permit. If the emissions once again exceed 196.0 tons, daily recordkeeping will be required per this section (D) of this permit.
- F. If the 12-month rolling total of all cumulative HAP emissions exceeds 19.5 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of all cumulative HAP emissions from this facility, in tons.
 - (2) The 365-day rolling total of the amount of cumulative HAP emissions from this facility, in tons.
 - (3) Daily calculations of all cumulative HAP emissions shall continue until the 365-day rolling total of the amount of all cumulative HAP emissions from this facility drops below 19.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of cumulative HAP emissions

will cease per this section (F) of this permit. . If the emissions once again exceed 19.5 tons, daily recordkeeping will be required per this section (F) of this permit.

- G. If the 12-month rolling total of any individual HAP emitted exceeds 7.5 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of emissions of each individual HAP from this facility, in tons.
 - (2) The 365-day rolling total of the amount of emissions of each individual HAP from this facility, in tons.
 - (3) Daily calculations of individual HAP emissions shall continue until the 365-day rolling total of the amount of emissions of each individual HAP from this facility drops below 7.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of emissions of each individual HAP will cease per this section (G) of this permit. If the emissions once again exceed 7.5 tons, daily recordkeeping will be required per this section (G) of this permit.
- H. The permittee may take credit for any waste VOC shipped off-site. The permittee shall record the amount of 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 a 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.
- I. If the 12-month rolling total of the uncontrolled particulate emissions exceeds 70.5 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of uncontrolled particulate emissions from this unit, in tons.
 - (2) The 365-day rolling total of the amount of uncontrolled particulate emissions from this unit, in tons.
 - (3) Daily calculations for uncontrolled particulate emissions shall continue until the 365-day rolling total of the amount of uncontrolled particulate emissions from this unit drops below 70.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of uncontrolled particulate emissions will cease per this section (I) of this permit. If the emissions once again exceed 70.5 tons, daily recordkeeping will be required per this section (I) of this permit.
- J. The spray booth's air heater shall be fired by natural gas only.
- K. A maximum of four (4) spray guns shall be operated in Paint Booth C12, EUC12PS, simultaneously at any one time.
- L. The owner or operator of this unit must ensure and certify that all new and existing personnel, including contract personnel, who spray apply surface coatings are trained in the proper application of surface coatings. A refresher training for all existing staff shall be conducted annually. The training program must include, at a minimum, the items listed in paragraphs below.

- Spray gun set up, and operation, including and achieving the proper spray pattern, air pressure and volume, and fluid delivery rate.
- Spray technique for different types of coatings to improve transfer efficiency and minimize coating usage and overspray, including maintaining the correct spray gun distance and angle to the part, using proper banding and overlap, and reducing lead and lag spraying at the beginning and end of each stroke.
- Environmental compliance with the requirements of this permit.

(1) The owner/operator shall maintain a list of all staff who have obtained training on spray coating application as required per this section (L) of this permit. This list shall include the date of the most recent training for each staff member.

M. The owner or operator shall operate and maintain the control equipment to maintain the designed performance of the equipment.

(1) The permittee shall maintain a record of all inspections/maintenance and any action resulting from the inspections/maintenance of the control equipment.

Note: VOC-containing or HAP-containing material shall include **all** materials which contain organics that are not listed as non-VOC's or contain listed HAP's (either organics or metals). These materials shall include but not necessarily limited to paints, coatings, solvents, hardeners, sealers, adhesives, release agents, etc.

Authority for Requirement: DNR Construction Permits in Table 1: C12 Paint System

Plant-wide Conditions

The permittee shall follow the additional reporting and recordkeeping requirements listed under Plant-Wide Conditions.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

EP	Stack Height (ft, from the ground)	Stack Opening (inches, dia)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Construction Permit
C12PS-1B	55	56	41,400	70	Vertical Unobstructed	94-A-263-S7
C12PS-2B	55	56	36,000	70	Vertical Unobstructed	97-A-633-S7
C12PS-3B	55	56	36,000	70	Vertical Unobstructed	97-A-634-S7
C12PS-4B	55	56	41,400	70	Vertical Unobstructed	97-A-635-S7

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall

submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

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 water wall scrubber.
- Maintain a written record of the observation and any action resulting from the inspection.

Recordkeeping and Reporting

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

Quality Control

- The water wall scrubber will be operated to maintain the design performance of the equipment.

Emission Point ID Number: C12TU

Associated Emission Unit ID Number: C12TU

Emissions Control Equipment ID Number: C12TU

Emissions Control Equipment Description: Cartridge Filters

Emission Units vented through these Emission Points: C12TU

Emission Unit Description: Touchup Paint Booth

Raw Material/Fuel: Spray Coatings

Rated Capacity: 3 gal/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: 40% ⁽¹⁾

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

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

DNR Construction Permit 12-A-588-S2

Pollutant: PM10

Emission Limit: 0.24 lb/hr

Authority for Requirement: DNR Construction Permit 12-A-588-S2

Pollutant: Particulate Matter

Emission Limit: 0.01 gr/dscf and 0.24 lb/hr

Authority for Requirement: 567 IAC 23.4(13)

DNR Construction Permit 12-A-588-S2

Pollutant: VOC

Emission Limit(s): 245 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Single)

Emission Limit(s): 9.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Total)

Emission Limit(s): 24.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Operational Limits & Requirements

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

NESHAP:

This emission unit is of the source category for Subpart HHHHHH (*NESHAP for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources of HAPs*; 40 CFR §63.11169 – §63.11180). However, this emission unit is not subject because, based on the information provided by the facility, the coatings used in this facility do not contain these target HAPs.

Authority for Requirement: DNR Construction Permit 12-A-588-S2
40 CFR Part 63 Subpart HHHHHH
567 IAC 23.1(4)"eh"

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The permittee (or owner or operator) shall use the following methods to calculate VOC and HAP emissions to show compliance with the facility wide emission limits:
- (1) For VOC-containing or HAP-containing process materials (paints, coatings, solvents, hardeners, sealers, adhesives, release agents, etc.), excluding the materials used in the RIM molds, the facility shall assume all VOC or HAP in the material is emitted. The emissions may be considered emitted on the day the materials are delivered to the facility, the emission unit, or to the production line.
 - (2) For Natural Gas combusted in external combustion sources, the facility shall use the emission factors and emission estimation methods in AP 42, Section 1.4, Natural Gas Combustion, or more representative emission factors if available.
 - (3) For Fuel Oil combusted in external combustion sources, the facility shall use the emission factors and emission estimation methods in AP 42, Section 1.3, Fuel Oil Combustion, or more representative emission factors if available.
 - (4) For fuel combusted in internal combustion engines, the facility shall use the emission factors and emission estimation methods in AP 42, Chapter 3, Stationary Internal Combustion Sources, Sections 3.2 - 3.4, or more representative emission factors if available.
 - (5) For Welding Wire/Electrodes, the facility shall use the emission factors and emission estimation methods in AP 42, Section 12.19, Electric Arc Welding, or more representative emission factors if available.
 - (6) For VOC-containing or HAP-containing materials injected into the RIM molds, the facility shall use manufacture's data to calculate VOC and HAP (MDI) emissions, or more representative emission factors if available.
- B. The permittee (or owner or operator) shall maintain the following daily records:
- (1) The identification of each material that contains or emits VOC or HAP used at the facility. These materials shall include, but not necessarily limited to: paints, coatings,

- solvents, hardeners, sealers, adhesives, release agents, fuel, welding wire/electrodes, reaction injection molding materials, etc.
- (2) The amount, in gallons, of each material that contains or emits VOC or HAP used at the facility.
 - (3) The permittee shall document the method per this section (B) of this permit used to calculate VOC and HAP emissions for each material used at the facility.
- C. The permittee shall maintain the following monthly records:
- (1) The identification of each material that contains or emits VOC or HAP used at the facility. These materials shall include but not necessarily limited to paints, solvents, hardeners, sealers, adhesives, fuel, welding wire/electrodes, etc.
 - (2) The amount, in gallons, of each material that contains or emits VOC or HAP used at the facility.
 - (3) The permittee shall document the method per this section (C) of this permit used to calculate VOC and HAP emissions for each material used at the facility.
 - (4) The amount of VOC emissions from this facility, in tons.
 - (5) The 12-month rolling total of the amount of VOC emissions from this facility, in tons.
 - (6) The amount of all cumulative HAP emissions from this facility, in tons.
 - (7) The 12-month rolling total of the amount of cumulative HAP emissions from all this facility, in tons.
 - (8) The amount of emissions of each individual HAP from this facility, in tons.
 - (9) The 12-month rolling total of the amount of emissions of each individual HAP from this facility, in tons.
- D. If the 12-month rolling total of the VOC emissions exceeds 196.0 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of VOC emissions from this facility, in tons.
 - (2) The 365-day rolling total of the amount of VOC emissions from this facility, in tons.
 - (3) Daily calculations for VOC emissions shall continue until the 365-day rolling total of the amount of VOC emissions from this facility drops below 196.0 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 this section (D) of this permit. If the emissions once again exceed 196.0 tons, daily recordkeeping will be required per this section (D) of this permit.
- E. If the 12-month rolling total of all cumulative HAP emissions exceeds 19.5 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of all cumulative HAP emissions from this facility, in tons.
 - (2) The 365-day rolling total of the amount of cumulative HAP emissions from this facility, in tons.
 - (3) Daily calculations of all cumulative HAP emissions shall continue until the 365-day rolling total of the amount of all cumulative HAP emissions from this facility drops below 19.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of cumulative HAP emissions will cease per this section (E) of this permit. . If the emissions once again exceed 19.5 tons, daily recordkeeping will be required per this section (E) of this permit.
- F. If the 12-month rolling total of any individual HAP emitted exceeds 7.5 tons, the permittee shall immediately begin keeping the following daily records:

- (1) The amount of emissions of each individual HAP from this facility, in tons.
- (2) The 365-day rolling total of the amount of emissions of each individual HAP from this facility, in tons.
- (3) Daily calculations of individual HAP emissions shall continue until the 365-day rolling total of the amount of emissions of each individual HAP from this facility drops below 7.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of emissions of each individual HAP will cease per this section (F) of this permit. If the emissions once again exceed 7.5 tons, daily recordkeeping will be required per this section (F) of this permit.

G. The permittee may take credit for any waste VOC shipped off-site. The permittee shall record the amount of 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 a 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.

H. The owner or operator shall operate and maintain the control equipment to maintain the designed performance of the equipment.

- (1) The permittee shall maintain a record of all inspections/maintenance and any action resulting from the inspections/maintenance of the control equipment.

Note: VOC-containing or HAP-containing material shall include **all** materials which contain organics that are not listed as non-VOCs or contain listed HAPs (either organics or metals). These materials shall include but not necessarily limited to paints, coatings, solvents, hardeners, sealers, adhesives, release agents, etc.

Authority for Requirement: DNR Construction Permit 12-A-588-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 43.5

Stack Opening, (inches, dia.): 52

Exhaust Flow Rate (scfm): 32,000

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 12-A-588-S2

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No
Relevant requirements of O & M plan for this equipment: PM/PM₁₀

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Spray Booth Filter 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.

Recordkeeping and Reporting

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

Quality Control

- The filter equipment shall be operated to maintain the design performance of the equipment.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: C9RPS-1 and C9RPS-2

Associated Emission Unit ID Numbers: C9RPS, C9AMU

Emissions Control Equipment ID Number: C9RPS

Emissions Control Equipment Description: Dry Filters

Emission Unit vented through these Emission Points: C9RPS

Emission Unit Description: C9 Rework Booth

Raw Material/Fuel: Spray Coatings

Rated Capacity: 3 gal/hr

Emission Unit vented through these Emission Points: C9AMU

Emission Unit Description: C9 Bake Oven

Raw Material/Fuel: Natural Gas

Rated Capacity: 4.2 MMBtu/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit: 40% ⁽¹⁾

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

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

DNR Construction Permits 12-A-403-S1 (C9RPS-1) and
12-A-404-S1 (C9RPS-2)

Pollutant: PM₁₀

Emission Limit: 1.64 lb/hr

Authority for Requirement: DNR Construction Permits 12-A-403-S1 (C9RPS-1) and
12-A-404-S1 (C9RPS-2)

Pollutant: Particulate Matter

Emission Limit: 0.01 gr/dscf

Authority for Requirement: 567 IAC 23.4(13)

DNR Construction Permits 12-A-403-S1 (C9RPS-1) and
12-A-404-S1 (C9RPS-2)

Pollutant: Particulate Matter (when using as bake oven)

Emission Limit(s): 0.1 gr/dscf

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

Pollutant: Sulfur Dioxide (SO₂) (when used as bake oven)

Emission Limit(s): 500 ppmv

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

Pollutant: VOC

Emission Limit(s): 245 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Single)

Emission Limit(s): 9.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Total)

Emission Limit(s): 24.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Operational Limits & Requirements

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

NESHAP:

This unit is of the source type regulated by the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources of HAPs (40 CFR 63 Subpart HHHHHH; 567 IAC 23.1(4)"eh") To be subject to this standard the unit would have to use coatings that contain the target HAPs identified in the standard. Based on the information provided in the application, the coatings proposed to be used in this unit do not contain these target HAPs. Therefore, at this time, this unit is not subject to this standard. If the material used changes, this unit may become subject to this standard.

Authority for Requirement: DNR Construction Permits 12-A-403-S1 (C9RPS-1) and
12-A-404-S1 (C9RPS-2)
40 CFR Part 63 Subpart HHHHHH
567 IAC 23.1(4)"eh"

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- I. The permittee (or owner or operator) shall use the following methods to calculate VOC and HAP emissions to show compliance with the facility wide emission limits:
 - (7) For VOC-containing or HAP-containing process materials (paints, coatings, solvents, hardeners, sealers, adhesives, release agents, etc.), excluding the materials used in the RIM molds, the facility shall assume all VOC or HAP in the material is emitted. The emissions may be considered emitted on the day the materials are delivered to the facility, the emission unit, or to the production line.
 - (8) For Natural Gas combusted in external combustion sources, the facility shall use the emission factors and emission estimation methods in AP 42, Section 1.4, Natural Gas Combustion, or more representative emission factors if available.

- (9) For Fuel Oil combusted in external combustion sources, the facility shall use the emission factors and emission estimation methods in AP 42, Section 1.3, Fuel Oil Combustion, or more representative emission factors if available.
 - (10) For fuel combusted in internal combustion engines, the facility shall use the emission factors and emission estimation methods in AP 42, Chapter 3, Stationary Internal Combustion Sources, Sections 3.2 - 3.4, or more representative emission factors if available.
 - (11) For Welding Wire/Electrodes, the facility shall use the emission factors and emission estimation methods in AP 42, Section 12.19, Electric Arc Welding, or more representative emission factors if available.
 - (12) For VOC-containing or HAP-containing materials injected into the RIM molds, the facility shall use manufacture's data to calculate VOC and HAP (MDI) emissions, or more representative emission factors if available.
- J. The permittee (or owner or operator) shall maintain the following daily records:
- (4) The identification of each material that contains or emits VOC or HAP used at the facility. These materials shall include, but not necessarily limited to: paints, coatings, solvents, hardeners, sealers, adhesives, release agents, fuel, welding wire/electrodes, reaction injection molding materials, etc.
 - (5) The amount, in gallons, of each material that contains or emits VOC or HAP used at the facility.
 - (6) The permittee shall document the method per this section (B) of this permit used to calculate VOC and HAP emissions for each material used at the facility.
- K. The permittee shall maintain the following monthly records:
- (10) The identification of each material that contains or emits VOC or HAP used at the facility. These materials shall include but not necessarily limited to paints, solvents, hardeners, sealers, adhesives, fuel, welding wire/electrodes, etc.
 - (11) The amount, in gallons, of each material that contains or emits VOC or HAP used at the facility.
 - (12) The permittee shall document the method per this section (C) of this permit used to calculate VOC and HAP emissions for each material used at the facility.
 - (13) The amount of VOC emissions from this facility, in tons.
 - (14) The 12-month rolling total of the amount of VOC emissions from this facility, in tons.
 - (15) The amount of all cumulative HAP emissions from this facility, in tons.
 - (16) The 12-month rolling total of the amount of cumulative HAP emissions from all this facility, in tons.
 - (17) The amount of emissions of each individual HAP from this facility, in tons.
 - (18) The 12-month rolling total of the amount of emissions of each individual HAP from this facility, in tons.
- L. If the 12-month rolling total of the VOC emissions exceeds 196.0 tons, the permittee shall immediately begin keeping the following daily records:
- (4) The amount of VOC emissions from this facility, in tons.
 - (5) The 365-day rolling total of the amount of VOC emissions from this facility, in tons.
 - (6) Daily calculations for VOC emissions shall continue until the 365-day rolling total of the amount of VOC emissions from this facility drops below 196.0 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 this section (D) of this permit. If the emissions once again exceed 196.0 tons, daily recordkeeping will be required per this section (D) of this permit.

- M. If the 12-month rolling total of all cumulative HAP emissions exceeds 19.5 tons, the permittee shall immediately begin keeping the following daily records:
- (4) The amount of all cumulative HAP emissions from this facility, in tons.
 - (5) The 365-day rolling total of the amount of cumulative HAP emissions from this facility, in tons.
 - (6) Daily calculations of all cumulative HAP emissions shall continue until the 365-day rolling total of the amount of all cumulative HAP emissions from this facility drops below 19.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of cumulative HAP emissions will cease per this section (E) of this permit. . If the emissions once again exceed 19.5 tons, daily recordkeeping will be required per this section (E) of this permit.
- N. If the 12-month rolling total of any individual HAP emitted exceeds 7.5 tons, the permittee shall immediately begin keeping the following daily records:
- (4) The amount of emissions of each individual HAP from this facility, in tons.
 - (5) The 365-day rolling total of the amount of emissions of each individual HAP from this facility, in tons.
 - (6) Daily calculations of individual HAP emissions shall continue until the 365-day rolling total of the amount of emissions of each individual HAP from this facility drops below 7.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of emissions of each individual HAP will cease per this section (F) of this permit. If the emissions once again exceed 7.5 tons, daily recordkeeping will be required per this section (F) of this permit.
- O. The permittee may take credit for any waste VOC shipped off-site. The permittee shall record the amount of 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 a 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.
- P. The owner or operator shall operate and maintain the control equipment to maintain the designed performance of the equipment.
- (2) The permittee shall maintain a record of all inspections/maintenance and any action resulting from the inspections/maintenance of the control equipment.

Note: VOC-containing or HAP-containing material shall include **all** materials which contain organics that are not listed as non-VOC's or contain listed HAP's (either organics or metals). These materials shall include but not necessarily limited to paints, coatings, solvents, hardeners, sealers, adhesives, release agents, etc.

Authority for Requirement: DNR Construction Permits 12-A-403-S1 (C9RPS-1) and 12-A-404-S1 (C9RPS-2)

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

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

Stack Opening, (inches, dia.): 42

Exhaust Flow Rate (scfm): 20,000

Exhaust Temperature (°F): 70/160 ⁽¹⁾

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permits 12-A-403-S1 (C9RPS-1) and 12-A-404-S1 (C9RPS-2)

⁽¹⁾ Operation of this unit consists of two distinct processes. When a product needs a paint touch-up, it is moved into the booth. The painting process occurs at a normal temperature of 70°F (ambient building temperature). After painting is complete, staff leaves the booth and the product remains. The booth then becomes a cure oven and is heated to a temperature of approximately 160 °F. This curing takes approximately 20 minutes after which the product is allowed to cool before being removed from the booth.

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Relevant requirements of O & M plan for this equipment: PM/PM₁₀

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Spray Booth Filter 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.

Recordkeeping and Reporting

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

Quality Control

- The filter equipment shall be operated to maintain the design performance of the equipment.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: E2

Associated Equipment

EU	EU Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
E2 Wash	E2 Wash System	NA	Reagent	225 gal/min	02-A-016-S5
E2 Oven	E2 Wash Oven	NA	Natural Gas	1.9 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.

Limits for the stack:

Pollutant: Opacity

Emission Limit(s): 40 % ⁽¹⁾

Authority for Requirement: DNR Construction Permit 02-A-016-S5
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀

Emission Limit(s): 3.90 lb/hr

Authority for Requirement: DNR Construction Permit 02-A-016-S5

Pollutant: Particulate Matter

Emission Limit(s): 3.90 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 02-A-016-S5
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 02-A-016-S5
567 IAC 23.3(3)"e"

Operational Limits & Requirements

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records

shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The oven shall operate on Natural Gas or Liquid Petroleum Gas (LPG) only.
- B. The total facility-wide natural gas usage shall not exceed 1,500,000,000 standard cubic feet per 12 month rolling.
 - (1) The permittee (or owner or operator) shall maintain the amount of natural gas utilized at the facility monthly.
 - (2) Their owner or operator shall calculate and record the rolling 12-month plant wide usage of natural gas monthly.
- C. The cleaning materials employed in washer system (E2 Wash) shall not contain any Volatile Organic Compounds (VOCs) or Hazardous Air Pollutants (HAPs).
 - (1) The owner or operator shall maintain a copy of the Safety Data Sheet (SDS) for all materials used in washer system (EU E2 Wash).

Authority for Requirement: DNR Construction Permit 02-A-016-S5

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from the ground): 39

Stack Opening (inches, dia): 33

Exhaust Flow Rate (scfm): 11,200

Exhaust Temperature (°F): 70

Discharge Style: Vertical unobstructed

Authority for Requirement: DNR Construction Permit 02-A-016-S5

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Numbers: E3P-1-O, E3P-2-O, E3P-3-O,
E3P-4-O, E3P-5-O, E3P-6-O,**

Associated Equipment

Table 1: E3 Paint Dip Tank

EP	EU	EU Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
E3P-1-O	E3PD	E3 Paint Dip Tank	NA	Paint	21.1 gal/hr	96-A-439-S4
E3P-2-O						02-A-273-S3
E3P-3-O						02-A-274-S4
E3P-4-O						02-A-275-S4
E3P-5-O						02-A-276-S4
E3P-6-O						02-A-277-S4

Applicable Requirements

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

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

Pollutant: VOC

Emission Limit(s): 245 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Single)

Emission Limit(s): 9.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Total)

Emission Limit(s): 24.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Operational Limits & Requirements

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

NESHAP

This unit is of the source type regulated by the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources of HAPs (40 CFR 63 Subpart HHHHHH; 567 IAC 23.1(4)“eh”) To be subject to this standard the unit would have to use coatings that contain the target HAPs identified in the standard. Based on the information provided in the application, the coatings proposed to be used in this unit do not contain these target HAPs. Therefore, at this time, this unit is not subject to this standard.

If the material used changes, this unit may become subject to this standard.

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The permittee (or owner or operator) shall use the following methods to calculate VOC and HAP emissions to show compliance with the facility wide emission limits:
 - (1) For VOC-containing or HAP-containing process materials (paints, coatings, solvents, hardeners, sealers, adhesives, release agents, etc.), excluding the materials used in the RIM molds, the facility shall assume all VOC or HAP in the material is emitted. The emissions may be considered emitted on the day the materials are delivered to the facility, the emission unit, or to the production line.
 - (2) For Natural Gas combusted in external combustion sources, the facility shall use the emission factors and emission estimation methods in AP 42, Section 1.4, Natural Gas Combustion, or more representative emission factors if available.
 - (3) For Fuel Oil combusted in external combustion sources, the facility shall use the emission factors and emission estimation methods in AP 42, Section 1.3, Fuel Oil Combustion, or more representative emission factors if available.
 - (4) For fuel combusted in internal combustion engines, the facility shall use the emission factors and emission estimation methods in AP 42, Chapter 3, Stationary Internal Combustion Sources, Sections 3.2 - 3.4, or more representative emission factors if available.
 - (5) For Welding Wire/Electrodes, the facility shall use the emission factors and emission estimation methods in AP 42, Section 12.19, Electric Arc Welding, or more representative emission factors if available.
 - (6) For VOC-containing or HAP-containing materials injected into the RIM molds, the facility shall use manufacture's data to calculate VOC and HAP (MDI) emissions, or more representative emission factors if available.
- B. The permittee (or owner or operator) shall maintain the following daily records:
 - (1) The identification of each material that contains or emits VOC or HAP used at the facility. These materials shall include, but not necessarily limited to: paints, coatings, solvents, hardeners, sealers, adhesives, release agents, fuel, welding wire/electrodes, reaction injection molding materials, etc.
 - (2) The amount, in gallons, of each material that contains or emits VOC or HAP used at the facility.
 - (3) The permittee shall document the method per this section (B) of this permit used to calculate VOC and HAP emissions for each material used at the facility.

- C. The permittee shall maintain the following monthly records:
- (1) The identification of each material that contains or emits VOC or HAP used at the facility. These materials shall include, but not necessarily limited to: paints, coatings, solvents, hardeners, sealers, adhesives, release agents, fuel, welding wire/electrodes, reaction injection molding materials, etc.
 - (2) The amount, in gallons, of each material that contains or emits VOC or HAP used at the facility.
 - (3) The permittee shall document the method per this section (C) of this permit used to calculate VOC and HAP emissions for each material used at the facility.
 - (4) The amount of VOC emissions from this facility, in tons.
 - (5) The 12-month rolling total of the amount of VOC emissions from this facility, in tons.
 - (6) The amount of all cumulative HAP emissions from this facility, in tons.
 - (7) The 12-month rolling total of the amount of cumulative HAP emissions from all this facility, in tons.
 - (8) The amount of emissions of each individual HAP from this facility, in tons.
 - (9) The 12-month rolling total of the amount of emissions of each individual HAP from this facility, in tons.
- D. If the 12-month rolling total of the VOC emissions exceeds 196.0 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of VOC emissions from this facility, in tons.
 - (2) The 365-day rolling total of the amount of VOC emissions from this facility, in tons.
 - (3) Daily calculations for VOC emissions shall continue until the 365-day rolling total of the amount of VOC emissions from this facility drops below 196.0 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 this section (D) of this permit. If the emissions once again exceed 196.0 tons, daily recordkeeping will be required per this section (D) of this permit.
- E. If the 12-month rolling total of all cumulative HAP emissions exceeds 19.5 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of all cumulative HAP emissions from this facility, in tons.
 - (2) The 365-day rolling total of the amount of cumulative HAP emissions from this facility, in tons.
 - (3) Daily calculations of all cumulative HAP emissions shall continue until the 365-day rolling total of the amount of all cumulative HAP emissions from this facility drops below 19.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of cumulative HAP emissions will cease per this section (E) of this permit. . If the emissions once again exceed 19.5 tons, daily recordkeeping will be required per this section (E) of this permit.
- F. If the 12-month rolling total of any individual HAP emitted exceeds 7.5 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of emissions of each individual HAP from this facility, in tons.
 - (2) The 365-day rolling total of the amount of emissions of each individual HAP from this facility, in tons.
 - (3) Daily calculations of individual HAP emissions shall continue until the 365-day rolling total of the amount of emissions of each individual HAP from this facility

drops below 7.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of emissions of each individual HAP will cease per this section (F) of this permit. If the emissions once again exceed 7.5 tons, daily recordkeeping will be required per this section (F) of this permit.

- G. The permittee may take credit for any waste VOC shipped off-site. The permittee shall record the amount of 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 a 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.

Note: VOC-containing or HAP-containing material shall include **all** materials which contain organics that are not listed as non-VOCs or contain listed HAPs (either organics or metals). These materials shall include but not necessarily limited to paints, coatings, solvents, hardeners, sealers, adhesives, release agents, etc.

Authority for Requirement: DNR Construction Permits in Table 1: E3 Paint Dip Tank

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

EP	Stack Height (ft, from the ground)	Stack Opening (inches, dia)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Construction Permit
E3P-1-O	23.8	24	7,400	75	Vertical Unobstructed	96-A-439-S4
E3P-2-O	24.2	24	9,150	75	Vertical Unobstructed	02-A-273-S3
E3P-3-O	23	30	4,500	75	Vertical Unobstructed	02-A-274-S4
E3P-4-O	23	30	4,500	75	Vertical Unobstructed	02-A-275-S4
E3P-5-O	23	30	4,500	75	Vertical Unobstructed	02-A-276-S4
E3P-6-O	23	30	4,500	75	Vertical Unobstructed	02-A-277-S4

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Numbers: E3PS-1B, E3PS-2B, E3PS-3B,
E3PS-4B**

Associated Equipment

Table 1: E3 Paint Spray Booth

EP	EU	EU Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
E3PS-1B	E3PS	E3 Paint Spray Booth	CEE3PS1: Mat Filter	Paint	2 guns @ 6.35 gal/hr each	02-A-183-S4
E3PS-2B			CEE3PS2: Mat Filter			02-A-184-S4
E3PS-3B			CEE3PS3: Mat Filter			02-A-549-S4
E3PS-4B			CEE3PS4: Mat Filter			02-A-550-S4

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 % ⁽¹⁾

Authority for Requirement: DNR Construction Permits in Table 1: E3 Paint Spray Booth
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀ (limit for each stack)

Emission Limit(s): 1.37 lb/hr

Authority for Requirement: DNR Construction Permits in Table 1: E3 Paint Spray Booth

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf, 1.37 lb/hr, 94.0 tons/yr

Authority for Requirement: DNR Construction Permits in Table 1: E3 Paint Spray Booth
567 IAC 23.4(13)

Pollutant: VOC

Emission Limit(s): 245 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Single)

Emission Limit(s): 9.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Total)

Emission Limit(s): 24.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Operational Limits & Requirements

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

NESHAP

This unit is of the source type regulated by the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources of HAPs (40 CFR 63 Subpart HHHHHH; 567 IAC 23.1(4)"eh") To be subject to this standard the unit would have to use coatings that contain the target HAPs identified in the standard. Based on the information provided in the application, the coatings proposed to be used in this unit do not contain these target HAPs. Therefore, at this time, this unit is not subject to this standard. If the material used changes, this unit may become subject to this standard.

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

A. The permittee (or owner or operator) shall use the following methods to calculate uncontrolled particulate emissions (PM) from this unit to show compliance the PM emission limit in Section 1 of this permit:

(1) Uncontrolled particulate emissions for each material shall be calculated using the following equation:

$$E = \frac{G \times C \times (100\% - TE)}{2000}$$

Where:

E = Emissions from use of a particular material.

G = # of gallons of the material sprayed over the previous day or month

C = solids content of the material

TE = transfer efficiency of the process. A value of no greater than 25% shall be used in this calculation.

(2) For the purposes of calculating emissions, all sprayable particulate containing materials may be considered emitted on the day the materials are delivered to the

facility or to the production line.

- (3) The total uncontrolled particulate emissions of from this unit shall be calculated by summing of emissions from all materials used.

B. The permittee (or owner or operator) shall use the following methods to calculate VOC and HAP emissions to show compliance with the facility wide emission limits:

- (1) For VOC-containing or HAP-containing process materials (paints, coatings, solvents, hardeners, sealers, adhesives, release agents, etc.), excluding the materials used in the RIM molds, the facility shall assume all VOC or HAP in the material is emitted. The emissions may be considered emitted on the day the materials are delivered to the facility, the emission unit, or to the production line.
- (2) For Natural Gas combusted in external combustion sources, the facility shall use the emission factors and emission estimation methods in AP 42, Section 1.4, Natural Gas Combustion, or more representative emission factors if available.
- (3) For Fuel Oil combusted in external combustion sources, the facility shall use the emission factors and emission estimation methods in AP 42, Section 1.3, Fuel Oil Combustion, or more representative emission factors if available.
- (4) For fuel combusted in internal combustion engines, the facility shall use the emission factors and emission estimation methods in AP 42, Chapter 3, Stationary Internal Combustion Sources, Sections 3.2 - 3.4, or more representative emission factors if available.
- (5) For Welding Wire/Electrodes, the facility shall use the emission factors and emission estimation methods in AP 42, Section 12.19, Electric Arc Welding, or more representative emission factors if available.
- (6) For VOC-containing or HAP-containing materials injected into the RIM molds, the facility shall use manufacture's data to calculate VOC and HAP (MDI) emissions, or more representative emission factors if available.

C. The permittee (or owner or operator) shall maintain the following daily records:

- (1) The identification of each material that contains or emits VOC or HAP used at the facility. These materials shall include, but not necessarily limited to: paints, coatings, solvents, hardeners, sealers, adhesives, release agents, fuel, welding wire/electrodes, reaction injection molding materials, etc.
- (2) The amount, in gallons, of each material that contains or emits VOC or HAP used at the facility.
- (3) The permittee shall document the method per this section (C) of this permit used to calculate VOC and HAP emissions for each material used at the facility.
- (4) The identification of each material that contains or emits particular material (solids) spayed in this unit. These materials shall include, but not necessarily limited to, paints, hardeners, sealers, etc.
- (5) The amount, in gallons, of each solids containing material sprayed in this unit.

- D. The permittee shall maintain the following monthly records:
- (1) The identification of each material that contains or emits VOC or HAP used at the facility. These materials shall include, but not necessarily limited to: paints, coatings, solvents, hardeners, sealers, adhesives, release agents, fuel, welding wire/electrodes, reaction injection molding materials, etc.
 - (2) The amount, in gallons, of each material that contains or emits VOC or HAP used at the facility.
 - (3) The permittee shall document the method per this section (D) of this permit used to calculate VOC and HAP emissions for each material used at the facility.
 - (4) The identification of each material that contains or emits particular material (solids) sprayed in this unit. These materials shall include, but not necessarily limited to, paints, hardeners, sealers, etc.
 - (5) The amount, in gallons, of each solids containing material sprayed in this unit.
 - (6) The amount of VOC emissions from this facility, in tons.
 - (7) The 12-month rolling total of the amount of VOC emissions from this facility, in tons.
 - (8) The amount of all cumulative HAP emissions from this facility, in tons.
 - (9) The 12-month rolling total of the amount of cumulative HAP emissions from all this facility, in tons.
 - (10) The amount of emissions of each individual HAP from this facility, in tons.
 - (11) The 12-month rolling total of the amount of emissions of each individual HAP from this facility, in tons.
 - (12) The amount of uncontrolled particulate emissions from this unit, in tons.
 - (13) The 12-month rolling total of the amount of uncontrolled particulate emissions from this unit, in tons.
- E. If the 12-month rolling total of the VOC emissions exceeds 196.0 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of VOC emissions from this facility, in tons.
 - (2) The 365-day rolling total of the amount of VOC emissions from this facility, in tons.
 - (3) Daily calculations for VOC emissions shall continue until the 365-day rolling total of the amount of VOC emissions from this facility drops below 196.0 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 this section (D) of this permit. If the emissions once again exceed 196.0 tons, daily recordkeeping will be required per this section (D) of this permit.
- F. If the 12-month rolling total of all cumulative HAP emissions exceeds 19.5 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of all cumulative HAP emissions from this facility, in tons.
 - (2) The 365-day rolling total of the amount of cumulative HAP emissions from this facility, in tons.
 - (3) Daily calculations of all cumulative HAP emissions shall continue until the 365-day rolling total of the amount of all cumulative HAP emissions from this facility drops below 19.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of cumulative HAP emissions will cease per this section (F) of this permit. . If the emissions once again exceed 19.5 tons, daily recordkeeping will be required per this section (F) of this permit.

- G. If the 12-month rolling total of any individual HAP emitted exceeds 7.5 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of emissions of each individual HAP from this facility, in tons.
 - (2) The 365-day rolling total of the amount of emissions of each individual HAP from this facility, in tons.
 - (3) Daily calculations of individual HAP emissions shall continue until the 365-day rolling total of the amount of emissions of each individual HAP from this facility drops below 7.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of emissions of each individual HAP will cease per this section (G) of this permit. If the emissions once again exceed 7.5 tons, daily recordkeeping will be required per this section (G) of this permit.
- H. The permittee may take credit for any waste VOC shipped off-site. The permittee shall record the amount of 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 a 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.
- I. If the 12-month rolling total of the uncontrolled particulate emissions exceeds 70.5 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of uncontrolled particulate emissions from this unit, in tons.
 - (2) The 365-day rolling total of the amount of uncontrolled particulate emissions from this unit, in tons.
 - (3) Daily calculations for uncontrolled particulate emissions shall continue until the 365-day rolling total of the amount of uncontrolled particulate emissions from this unit drops below 70.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of uncontrolled particulate emissions will cease per this section (I) of this permit. If the emissions once again exceed 70.5 tons, daily recordkeeping will be required per this section (I) of this permit.
- J. The owner or operator of this unit must ensure and certify that all new and existing personnel, including contract personnel, who spray apply surface coatings are trained in the proper application of surface coatings. A refresher training for all existing staff shall be conducted annually. The training program must include, at a minimum, the items listed in paragraphs below.
- Spray gun set up, and operation, including and achieving the proper spray pattern, air pressure and volume, and fluid delivery rate.
 - Spray technique for different types of coatings to improve transfer efficiency and minimize coating usage and overspray, including maintaining the correct spray gun distance and angle to the part, using proper banding and overlap, and reducing lead and lag spraying at the beginning and end of each stroke.
 - Environmental compliance with the requirements of this permit.

(1) The owner/operator shall maintain a list of all staff who have obtained training on spray coating application as required per this section (J) of this permit. This list shall include the date of the most recent training for each staff member.

K. The owner or operator shall operate and maintain the control equipment to maintain the designed performance of the equipment.

(1) The permittee shall maintain a record of all inspections/maintenance and any action resulting from the inspections/maintenance of the control equipment.

Note: VOC-containing or HAP-containing material shall include **all** materials which contain organics that are not listed as non-VOC's or contain listed HAP's (either organics or metals). These materials shall include but not necessarily limited to paints, coatings, solvents, hardeners, sealers, adhesives, release agents, etc.

Authority for Requirement: DNR Construction Permits in Table 1: E3 Paint Spray Booth

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height (ft, from the ground): 40.5

Stack Opening (inches, dia): 42

Exhaust Flow Rate (scfm): 20,000

Exhaust Temperature (°F): 73

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permits in Table 1: E3 Paint Spray Booth

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

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.

Recordkeeping and Reporting

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

Quality Control

- The filter equipment will be operated to maintain the design performance of the equipment.

Emission Point ID Number: E4 Oven

Associated Emission Unit ID Number: E4 Oven

Emission Units vented through this Emission Point: E4 Oven

Emission Unit Description: E4 Paint Line Oven

Raw Material: Natural Gas

Rated Capacity: 3.7 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 % ⁽¹⁾

Authority for Requirement: DNR Construction Permit 02-A-042
567 IAC 23.3(2)"d"

⁽¹⁾ 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

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 02-A-042
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 02-A-042
567 IAC 23.3(3)"e"

Pollutant: VOC

Emission Limit(s): 245 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Single)

Emission Limit(s): 9.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Total)

Emission Limit(s): 24.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Operational Limits & Requirements

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

Process throughput:

- A. The oven shall be fired by natural gas or liquefied petroleum gas only. The heat input to the burner is 3.7 MMBTU/hr.

Authority for Requirement: DNR Construction Permit 02-A-042

Reporting & Recordkeeping:

All records as required by this permit shall be kept on site for a minimum of five (5) years and shall be available for inspection by the DNR.

- A. The permittee shall follow the additional reporting and recordkeeping requirements listed under Plant-Wide Conditions.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from the ground): 24

Stack Opening (inches): 18

Exhaust Flow Rate (scfm): 3,540

Exhaust Temperature (°F): 230

Discharge Style: Vertical, unobstructed

Authority for Requirement: DNR Construction Permit 02-A-042

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: L4PS-1-B, L4PS-2-B and L4PS-3-B

Associated Equipment

Table 1: L4 Paint System Spray Booth

EP	EU	EU Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
L4PS-1-B	L4PS	L4 Paint System Spray Booth	CE-L4PS, Dry Filters	Paint/Solvent, Natural Gas	1 spray gun, Maximum Capacity 4.75 gal/hr; 6.22 MMBtu/hr	86-A-004-S7
L4PS-2-B						02-A-185-S6
L4PS-3-B						04-A-608-S4

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 % ⁽¹⁾

Authority for Requirement: DNR Construction Permits in Table 1: L4 Paint System Spray Booth
567 IAC 23.3(2)"d"

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

Pollutant: PM₁₀ (for each stack)

Emission Limit(s): 1.60 lb/hr

Authority for Requirement: DNR Construction Permits in Table 1: L4 Paint System Spray Booth

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: DNR Construction Permits in Table 1: L4 Paint System Spray Booth
567 IAC 23.4(13)

Pollutant: Sulfur Dioxide (SO₂) (for natural gas combustion)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permits in Table 1: L4 Paint System Spray Booth
567 IAC 23.3(3)"e"

Pollutant: VOC

Emission Limit(s): 245 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Single)
Emission Limit(s): 9.4 tons per rolling 12-month period (facility-wide)
Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Total)
Emission Limit(s): 24.4 tons per rolling 12-month period (facility-wide)
Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Operational Limits & Requirements

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

NESHAP

This unit is of the source type regulated by the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources of HAPs (40 CFR 63 Subpart HHHHHH; 567 IAC 23.1(4)"eh") To be subject to this standard the unit would have to use coatings that contain the target HAPs identified in the standard. Based on the information provided in the application, the coatings proposed to be used in this unit do not contain these target HAPs. Therefore, at this time, this unit is not subject to this standard. If the material used changes, this unit may become subject to this standard.

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The permittee (or owner or operator) shall use the following methods to calculate VOC and HAP emissions to show compliance with the facility wide emission limits:
 - (1) For VOC-containing or HAP-containing process materials (paints, coatings, solvents, hardeners, sealers, adhesives, release agents, etc.), excluding the materials used in the RIM molds, the facility shall assume all VOC or HAP in the material is emitted. The emissions may be considered emitted on the day the materials are delivered to the facility, the emission unit, or to the production line.
 - (2) For Natural Gas combusted in external combustion sources, the facility shall use the emission factors and emission estimation methods in AP 42, Section 1.4, Natural Gas Combustion, or more representative emission factors if available.
 - (3) For Fuel Oil combusted in external combustion sources, the facility shall use the emission factors and emission estimation methods in AP 42, Section 1.3, Fuel Oil Combustion, or more representative emission factors if available.
 - (4) For fuel combusted in internal combustion engines, the facility shall use the emission factors and emission estimation methods in AP 42, Chapter 3, Stationary Internal

- Combustion Sources, Sections 3.2 - 3.4, or more representative emission factors if available.
- (5) For Welding Wire/Electrodes, the facility shall use the emission factors and emission estimation methods in AP 42, Section 12.19, Electric Arc Welding, or more representative emission factors if available.
 - (6) For VOC-containing or HAP-containing materials injected into the RIM molds, the facility shall use manufacture's data to calculate VOC and HAP (MDI) emissions, or more representative emission factors if available.
- B. The permittee (or owner or operator) shall maintain the following daily records:
- (1) The identification of each material that contains or emits VOC or HAP used at the facility. These materials shall include, but not necessarily limited to: paints, coatings, solvents, hardeners, sealers, adhesives, release agents, fuel, welding wire/electrodes, reaction injection molding materials, etc.
 - (2) The amount, in gallons, of each material that contains or emits VOC or HAP used at the facility.
 - (3) The permittee shall document the method per this section (B) of this permit used to calculate VOC and HAP emissions for each material used at the facility.
- C. The permittee shall maintain the following monthly records:
- (1) The identification of each material that contains or emits VOC or HAP used at the facility. These materials shall include but not necessarily limited to paints, solvents, hardeners, sealers, adhesives, fuel, welding wire/electrodes, etc.
 - (2) The amount, in gallons, of each material that contains or emits VOC or HAP used at the facility.
 - (3) The permittee shall document the method per this section (C) of this permit used to calculate VOC and HAP emissions for each material used at the facility.
 - (4) The amount of VOC emissions from this facility, in tons.
 - (5) The 12-month rolling total of the amount of VOC emissions from this facility, in tons.
 - (6) The amount of all cumulative HAP emissions from this facility, in tons.
 - (7) The 12-month rolling total of the amount of cumulative HAP emissions from all this facility, in tons.
 - (8) The amount of emissions of each individual HAP from this facility, in tons.
 - (9) The 12-month rolling total of the amount of emissions of each individual HAP from this facility, in tons.
- D. If the 12-month rolling total of the VOC emissions exceeds 196.0 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of VOC emissions from this facility, in tons.
 - (2) The 365-day rolling total of the amount of VOC emissions from this facility, in tons.
 - (3) Daily calculations for VOC emissions shall continue until the 365-day rolling total of the amount of VOC emissions from this facility drops below 196.0 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 this section (D) of this permit. If the emissions once again exceed 196.0 tons, daily recordkeeping will be required per this section (D) of this permit.

- E. If the 12-month rolling total of all cumulative HAP emissions exceeds 19.5 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of all cumulative HAP emissions from this facility, in tons.
 - (2) The 365-day rolling total of the amount of cumulative HAP emissions from this facility, in tons.
 - (3) Daily calculations of all cumulative HAP emissions shall continue until the 365-day rolling total of the amount of all cumulative HAP emissions from this facility drops below 19.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of cumulative HAP emissions will cease per this section (E) of this permit. . If the emissions once again exceed 19.5 tons, daily recordkeeping will be required per this section (E) of this permit.
- F. If the 12-month rolling total of any individual HAP emitted exceeds 7.5 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of emissions of each individual HAP from this facility, in tons.
 - (2) The 365-day rolling total of the amount of emissions of each individual HAP from this facility, in tons.
 - (3) Daily calculations of individual HAP emissions shall continue until the 365-day rolling total of the amount of emissions of each individual HAP from this facility drops below 7.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of emissions of each individual HAP will cease per this section (F) of this permit. If the emissions once again exceed 7.5 tons, daily recordkeeping will be required per this section (F) of this permit.
- G. The permittee may take credit for any waste VOC shipped off-site. The permittee shall record the amount of 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 a 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.
- H. The Paint Booth L4 Air Heater shall only be fired by natural gas or liquefied petroleum gas.
- I. The owner or operator shall operate and maintain the control equipment to maintain the designed performance of the equipment.
- (1) The permittee shall maintain a record of all inspections/maintenance and any action resulting from the inspections/maintenance of the control equipment.

Note: VOC-containing or HAP-containing material shall include **all** materials which contain organics that are not listed as non-VOC's or contain listed HAP's (either organics or metals). These materials shall include but not necessarily limited to paints, coatings, solvents, hardeners, sealers, adhesives, release agents, etc.

Authority for Requirement: 567 IAC 22.108(3)
 DNR Construction Permits in Table 1: L4 Paint System Spray Booth

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

EP	Stack Height (ft, from the ground)	Stack Opening (inches, dia)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Construction Permit
L4PS-1-B	32.1	40	18,700	70	Vertical Unobstructed	86-A-004-S7
L4PS-2-B	32.1	40	18,700	70	Vertical Unobstructed	02-A-185-S6
L4PS-3-B	32.1	40	18,700	70	Vertical Unobstructed	04-A-608-S4

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Spray Booth Filter 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.

Recordkeeping and Reporting

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

Quality Control

- The filter equipment shall be operated to maintain the design performance of the equipment.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: WPR (Vents Inside)

Associated Emission Unit ID Number: WPR

Emission Units vented through this Emission Point: WPR

Emission Unit Description: Production Welding

Raw Material: Weld Wire

Rated Capacity: 1,500,000 lb/yr

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: Fugitive Dust

Emission Limit: 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, without taking reasonable precautions to prevent a nuisance. All persons 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.

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

Pollutant: VOC

Emission Limit(s): 245 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Single)

Emission Limit(s): 9.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Total)

Emission Limit(s): 24.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Operational Limits & Requirements

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

Process throughput:

- A. Weld wire usage shall not exceed 1,500,000 pounds per 12-month rolling period.

Authority for Requirement: 567 IAC 22.108(14)

Reporting & Recordkeeping:

All records as required by this permit shall be kept on site for a minimum of five (5) years and shall be available for inspection by the DNR.

- A. Record on a monthly basis, the total amount of weld wire. Calculate and record rolling 12-month totals.

Authority for Requirement: 567 IAC 22.108(3)

- B. The permittee shall follow the additional reporting and recordkeeping requirements listed under Plant-Wide Conditions.

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 Numbers: MA and MPS (Vents Inside)

Associated Equipment

EP	EU	EU Description	Control Equipment	Raw Material	Rated Capacity
MA	MA	Misc. Adhesive Usage	NA	Adhesive	0.029 gal/hr
MPS	MPS	Misc. Paint Usage	NA	Paint	2.47 gal/hr

Applicable Requirements

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

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

Pollutant: VOC

Emission Limit(s): 245 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Single)

Emission Limit(s): 9.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Total)

Emission Limit(s): 24.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Operational Limits & Requirements

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

The permittee shall follow the additional reporting and recordkeeping requirements listed under Plant-Wide Conditions.

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 Numbers: C4PS1, C4PS2, C4PS3, C4PS4

Associated Equipment

Table 1: C4 Paint Booth

EP	EU	EU Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
C4PS1	C4PS	C4 Paint Booth	C4D Blanket Sacrificial Filter and Bag Filter	Paint	37.5 gal/hr	09-A-498-S1
C4PS2						09-A-499-S1
C4PS3						09-A-500-S1
C4PS4						09-A-501-S1

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 % ⁽¹⁾

Authority for Requirement: DNR Construction Permits in Table 1: C4 Paint Booth
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: DNR Construction Permits in Table 1: C4 Paint Booth
567 IAC 23.4(13)

Pollutant: VOC

Emission Limit(s): 245 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Single)

Emission Limit(s): 9.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Total)

Emission Limit(s): 24.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Operational Limits & Requirements

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

NESHAP

This unit is of the source type regulated by the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources of HAPs (40 CFR 63 Subpart HHHHHH; 567 IAC 23.1(4)"eh") To be subject to this standard the unit would have to use coatings that contain the target HAPs identified in the standard. Based on the information provided in the application, the coatings proposed to be used in this unit do not contain these target HAPs. Therefore, at this time, this unit is not subject to this standard. If the material used changes, this unit may become subject to this standard.

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

Operating Requirements with Associated Monitoring and Recordkeeping

Unless specified by a federal regulation, all records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping for this permit shall be:

- A. The permittee (or owner or operator) shall use the following methods to calculate VOC and HAP emissions to show compliance with the facility wide emission limits:
 - (1) For VOC-containing or HAP-containing process materials (paints, coatings, solvents, hardeners, sealers, adhesives, release agents, etc.), excluding the materials used in the RIM molds, the facility shall assume all VOC or HAP in the material is emitted. The emissions may be considered emitted on the day the materials are delivered to the facility, the emission unit, or to the production line.
 - (2) For Natural Gas combusted in external combustion sources, the facility shall use the emission factors and emission estimation methods in AP 42, Section 1.4, Natural Gas Combustion, or more representative emission factors if available.
 - (3) For Fuel Oil combusted in external combustion sources, the facility shall use the emission factors and emission estimation methods in AP 42, Section 1.3, Fuel Oil Combustion, or more representative emission factors if available.
 - (4) For fuel combusted in internal combustion engines, the facility shall use the emission factors and emission estimation methods in AP 42, Chapter 3, Stationary Internal Combustion Sources, Sections 3.2 - 3.4, or more representative emission factors if available.
 - (5) For Welding Wire/Electrodes, the facility shall use the emission factors and emission estimation methods in AP 42, Section 12.19, Electric Arc Welding, or more representative emission factors if available.

- (6) For VOC-containing or HAP-containing materials injected into the RIM molds, the facility shall use manufacture's data to calculate VOC and HAP (MDI) emissions, or more representative emission factors if available.
- B. The permittee (or owner or operator) shall maintain the following daily records:
- (1) The identification of each material that contains or emits VOC or HAP used at the facility. These materials shall include, but not necessarily limited to: paints, coatings, solvents, hardeners, sealers, adhesives, release agents, fuel, welding wire/electrodes, reaction injection molding materials, etc.
 - (2) The amount, in gallons, of each material that contains or emits VOC or HAP used at the facility.
 - (3) The permittee shall document the method per this section (B) of this permit used to calculate VOC and HAP emissions for each material used at the facility.
- C. The permittee shall maintain the following monthly records:
- (1) The identification of each material that contains or emits VOC or HAP used at the facility. These materials shall include, but not necessarily limited to: paints, coatings, solvents, hardeners, sealers, adhesives, release agents, fuel, welding wire/electrodes, reaction injection molding materials, etc.
 - (2) The amount, in gallons, of each material that contains or emits VOC or HAP used at the facility.
 - (3) The permittee shall document the method per this section (C) of this permit used to calculate VOC and HAP emissions for each material used at the facility.
 - (4) The amount of VOC emissions from this facility, in tons.
 - (5) The 12-month rolling total of the amount of VOC emissions from this facility, in tons.
 - (6) The amount of all cumulative HAP emissions from this facility, in tons.
 - (7) The 12-month rolling total of the amount of cumulative HAP emissions from all this facility, in tons.
 - (8) The amount of emissions of each individual HAP from this facility, in tons.
 - (9) The 12-month rolling total of the amount of emissions of each individual HAP from this facility, in tons.
- D. If the 12-month rolling total of the VOC emissions exceeds 196.0 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of VOC emissions from this facility, in tons.
 - (2) The 365-day rolling total of the amount of VOC emissions from this facility, in tons.
 - (3) Daily calculations for VOC emissions shall continue until the 365-day rolling total of the amount of VOC emissions from this facility drops below 196.0 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 this section (D) of this permit. If the emissions once again exceed 196.0 tons, daily recordkeeping will be required per this section (D) of this permit.
- E. If the 12-month rolling total of all cumulative HAP emissions exceeds 19.5 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of all cumulative HAP emissions from this facility, in tons.
 - (2) The 365-day rolling total of the amount of cumulative HAP emissions from this facility, in tons.

(3) Daily calculations of all cumulative HAP emissions shall continue until the 365-day rolling total of the amount of all cumulative HAP emissions from this facility drops below 19.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of cumulative HAP emissions will cease per this section (E) of this permit. . If the emissions once again exceed 19.5 tons, daily recordkeeping will be required per this section (E) of this permit.

- F. If the 12-month rolling total of any individual HAP emitted exceeds 7.5 tons, the permittee shall immediately begin keeping the following daily records:
- (1) The amount of emissions of each individual HAP from this facility, in tons.
 - (2) The 365-day rolling total of the amount of emissions of each individual HAP from this facility, in tons.
 - (3) Daily calculations of individual HAP emissions shall continue until the 365-day rolling total of the amount of emissions of each individual HAP from this facility drops below 7.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of emissions of each individual HAP will cease per this section (F) of this permit. If the emissions once again exceed 7.5 tons, daily recordkeeping will be required per this section (F) of this permit.
- G. The permittee may take credit for any waste VOC shipped off-site. The permittee shall record the amount of 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 a 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.
- H. A maximum of four (4) spray guns shall be operated in Paint Booth C4, EU-C4, simultaneously at any one time.
- I. The owner or operator shall operate and maintain the control equipment to maintain the designed performance of the equipment.
- (1) The permittee shall maintain a record of all inspections/maintenance and any action resulting from the inspections/maintenance of the control equipment.

Note: VOC-containing or HAP-containing material shall include **all** materials which contain organics that are not listed as non-VOC's or contain listed HAP's (either organics or metals). These materials shall include but not necessarily limited to paints, coatings, solvents, hardeners, sealers, adhesives, release agents, etc.

Authority for Requirement: 567 IAC 22.108(3)
DNR Construction Permits in Table 1: C4 Paint Booth

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height (ft, from the ground): 55

Stack Opening (inches): 60

Exhaust Flow Rate (scfm): 45,825

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, unobstructed

Authority for Requirement: DNR Construction Permits in Table 1: C4 Paint Booth

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Compliance Assurance Monitoring (CAM) Plan C4 Primer Booth

Paint Filter Media Parameters

- Associated Emission Units: C4PS
- Associated Emission Points: C4PS1, C4PS2, C4PS3, C4PS4
- Pollutants Controlled: PM, PM₁₀

Applicable Requirements

PM emission limits: 0.01 gr/scf (per stack)

Authority for Requirement: 567 IAC 23.4(13)

PM₁₀ Emission limit: NA

Authority for Requirement: 567 IAC 23.4(13), Iowa DNR Construction Permits 09-A-498-S1 through 09-A-501-S1

Monitoring Approach

General Monitoring Guidelines

- CAM involves the observation of control equipment compliance indicators, such as visible emissions and differential pressure. This plan defines acceptable ranges for these indicators. CAM also includes control equipment maintenance and inspections. Maintenance and inspections that will facilitate consistent control equipment operations are identified in this plan.
- Monitoring is not required during periods of time greater than one day in which the source does not operate.
- If weather prevents visible emissions monitoring, the observer will note the weather conditions on the form used to record monitoring. If an observation is necessary to meet the required daily monitoring, at least three attempts will be made to retake the observation throughout the day. If unsuccessful that day due to weather, an observation will be made the next day the weather permits.

Excursion from Compliance Indicators

- An excursion occurs when an observed compliance indicator is outside of its defined acceptable indicator range. An excursion does not necessarily indicate a violation of applicable permit terms, conditions, and/or requirements. However, an excursion is a deviation that must be reported in the Semi-Annual Monitoring Report and Annual Compliance Certification Report.
- Corrective actions will begin as soon as possible, but no later than eight hours from the observation of the excursion. (Abnormal conditions discovered through equipment inspection and maintenance also require implementation of remediation within eight hours.)
- If corrective actions do not return the compliance indicator to its defined acceptable indicator range, JDDW will demonstrate compliance with the PM and PM₁₀ limit by conducting
 - source testing approved by the Department within 90 days of the excursion.
 - If the test demonstrates compliance with emission limits, JDOW will determine new indicator ranges for monitoring based on the testing results.
 - If the test demonstrates noncompliance with emission limits, JDOW will, within 60 days, propose a schedule to implement corrective action to bring the source into compliance and conduct source testing to demonstrate compliance.
 - Report monitoring or other deviations (operating conditions, emission limits, or reporting requirements) in IDNR semi-annual monitoring and annual compliance certification reports.

Compliance Indicator Ranges

- No visible emissions.
- Exhaust Stack Differential Pressures
 - Acceptable indicator ranges: DP between 0.1 and 0.75 inches of water across the secondary filters as indicated by the differential pressure gages or the online monitoring system.

Monitoring Methods

- Daily (when in operation)
 - Complete critical gauge readings of differential pressures across the secondary filters. These readings will be documented. The readings will be checked once per day utilizing the online monitoring system or by physically accessing the gages. Readings outside of the normal operating ranges will be addressed in a timely manner.
- Weekly
 - Observe for visible emissions during painting operations of unit
- Annually
 - Inspect the differential pressure gages and sending equipment and calibrate as needed.

Performance Criteria

Data Representativeness

An observation in of visible emissions could indicate a decrease in the performance of the filter media and potentially an increase in particulate emissions.

Record Keeping and Reporting (Verification of Operational Status)

- JDOW will maintain records of the following:
 - Daily logs of differential pressures
 - Weekly visible emissions evaluations.
 - Record any excursions and corrective actions resulting from compliance indicators and inspections and maintenance.
- Records will be kept for at least five years and be available upon request.

Quality Control

- The overspray collection system and its monitoring equipment will be operated and maintained according to manufacturer recommendations and/or as outlined in the above monitoring requirements.
- JDOW will maintain an adequate inventory of spare parts.

Data Collection Procedures

- Manual log entries are made based on the observation (or not) of visible emissions. These entries are recorded on the weekly filter inspection check sheet.
- Differential pressure readings will be recorded daily by the PLC and maintained on the facility's intranet or recorded manually and maintained in the environmental office.
- Maintenance personnel record all maintenance/inspections performed on the filtration system and actions resulting from the inspections in SAP.

Emission Point ID Number: See Table: Tanks

Associated Equipment

Table: Tanks

EP	EU	EU Description	Control Equipment	Raw Material	Rated Capacity
TC9D	TC9D	Diesel Fuel Tank	NA	Diesel	1,500 gal
TPWO	TPWO	Waste Oil Tank	NA	Waste Oil	10,000 gal
TM3G	TM3G	Unleaded Gasoline Tank	NA	Gasoline	515 gal
HYGARD	HYGARD	Hy-Gard Hydraulic Oil Tank	NA	Hy-Gard Oil	10,000 gal
UO	UO	Used Oil (Coolant) Tank	NA	Used Oil	7,700 gal
WW28	WW28	Wastewater Tank T028	NA	Wastewater	17,400 gal
WW29	WW29	Wastewater Tank T029	NA	Wastewater	17,400 gal
C2 RP Tank	C2 RP Tank	Rust Preventative Tank in C2 Building	NA	Rust Preventative Liquid	1,000 gal/yr

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: VOC

Emission Limit(s): 245 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Single)

Emission Limit(s): 9.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Total)

Emission Limit(s): 24.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Operational Limits & Requirements

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

For Emission Unit TM3G Only:

The permittee shall follow all requirements of 40 CFR 63.11116.

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

Reporting & Recordkeeping:

All records as required by this permit shall be kept on site for a minimum of five (5) years and shall be available for inspection by the DNR.

The permittee shall follow the additional reporting and recordkeeping requirements listed under Plant-Wide Conditions.

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: LASERS

Associated Emission Unit ID Numbers: LASERS
Emissions Control Equipment ID Number: LASERS
Emissions Control Equipment Description: Dry Filter

Emission Unit vented through this Emission Point: LASERS
Emission Unit Description: Laser Cutting, Facility-Wide
Raw Material/Fuel: Steel
Rated Capacity: 11,811 in/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
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: VOC
Emission Limit(s): 245 tons per rolling 12-month period (facility-wide)
Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Single)
Emission Limit(s): 9.4 tons per rolling 12-month period (facility-wide)
Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Total)
Emission Limit(s): 24.4 tons per rolling 12-month period (facility-wide)
Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Operational Limits & Requirements

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

Reporting & Recordkeeping:
All records as required by this permit shall be kept on site for a minimum of five (5) years and shall be available for inspection by the DNR.

The permittee shall follow the additional reporting and recordkeeping requirements listed under Plant-Wide Conditions.

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: EGEN

Associated Emission Unit ID Numbers: EGEN

Emission Unit vented through this Emission Point: EGEN

Emission Unit Description: Emergency Generator Engine

Raw Material/Fuel: Natural Gas

Rated Capacity: 162 BHP

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %

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

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

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

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

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

Pollutant: VOC

Emission Limit(s): 245 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Single)

Emission Limit(s): 9.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Total)

Emission Limit(s): 24.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Operational Limits & Requirements

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

NESHAP:

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

Operation and Maintenance Requirements 40 CFR 63.6603, 63.6625, 63.6640 and Tables 2d and 6 to Subpart ZZZZ

1. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(j) for the oil analysis option to extend time frame of requirements.)
2. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
5. Install a non-resettable hour meter if one is not already installed.
6. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Operating Limits 40 CFR 63.6640(f)

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

Recordkeeping Requirements 40 CFR 63.6655

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

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

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

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

Additional Reporting & Recordkeeping:

All records as required by this permit shall be kept on site for a minimum of five (5) years and shall be available for inspection by the DNR.

The permittee shall follow the additional reporting and recordkeeping requirements listed under Plant-Wide Conditions.

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: C EGEN

Associated Emission Unit ID Numbers: C EGEN

Emission Unit vented through this Emission Point: C EGEN
Emission Unit Description: Emergency Generator in C Building
Raw Material/Fuel: Natural Gas
Rated Capacity: 16 BHP

Applicable Requirements

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

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

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

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

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Pollutant: VOC
Emission Limit(s): 245 tons per rolling 12-month period (facility-wide)
Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Single)
Emission Limit(s): 9.4 tons per rolling 12-month period (facility-wide)
Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Total)
Emission Limit(s): 24.4 tons per rolling 12-month period (facility-wide)
Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Operational Limits & Requirements

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

NESHAP:

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

Operation and Maintenance Requirements 40 CFR 63.6603, 63.6625, 63.6640 and Tables 2d and 6 to Subpart ZZZZ

1. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(j) for the oil analysis option to extend time frame of requirements.)
2. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
5. Install a non-resettable hour meter if one is not already installed.
6. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Operating Limits 40 CFR 63.6640(f)

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

Recordkeeping Requirements 40 CFR 63.6655

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

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

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

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

Additional Reporting & Recordkeeping:

All records as required by this permit shall be kept on site for a minimum of five (5) years and shall be available for inspection by the DNR.

The permittee shall follow the additional reporting and recordkeeping requirements listed under Plant-Wide Conditions.

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: STILL

Emission Units vented through this Emission Point: STILL

Emission Unit Description: Solvent Still

Raw Material: Solvents

Rated Capacity: 443 tons/yr

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: VOC

Emission Limit(s): 245 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Single)

Emission Limit(s): 9.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Total)

Emission Limit(s): 24.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Operational Limits & Requirements

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

Reporting & Recordkeeping:

All records as required by this permit shall be kept on site for a minimum of five (5) years and shall be available for inspection by the DNR.

The permittee shall follow the additional reporting and recordkeeping requirements listed under Plant-Wide Conditions.

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: DEBUR

Emission Units vented through this Emission Point: DEBUR

Emission Unit Description: Deburring Machine

Raw Material: Steel Parts and Sand

Rated Capacity: 2.70 Tons of material/hr

Control Equipment: CE-DEBURR

Control Equipment Description: Wet Dust Collector

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %

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

Pollutant: Particulate Matter

Emission Limit(s): 0.05 gr/dscf

Authority for Requirement: 567 IAC 23.4(6)

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: C9 KIT, E3 KIT, W3 KIT and W4 CHEM

Associated Equipment

Associated Emission Unit ID Numbers: C9 KIT, E3 KIT, W3 KIT and W4 CHEM

Emission Units vented through this Emission Point: C9 KIT, E3 KIT, W3 KIT and W4 CHEM
Emission Unit Description: C9 Paint Kitchen, E3 Paint Kitchen, W3 Paint Kitchen and W4 Chemical Storage
Raw Material: Paint and Solvents
Rated Capacity: NA (Paint and Solvent Storage Area)

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 (VOC and HAP emissions from this emissions unit are accounted for in the permits for the spray booths).

Pollutant: VOC

Emission Limit(s): 245 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Single)

Emission Limit(s): 9.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Pollutant: Hazardous Air Pollutants (Total)

Emission Limit(s): 24.4 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Operational Limits & Requirements

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

Reporting & Recordkeeping:

All records as required by this permit shall be kept on site for a minimum of five (5) years and shall be available for inspection by the DNR.

The permittee shall follow the additional reporting and recordkeeping requirements listed under Plant-Wide Conditions.

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: 3D PRINT 1, 3D PRINT 2, 3D PRINT 3,
3D PRINT 4, 3D PRINT 7, 3D PRINT 8**

Associated Equipment

Emission Point Number	Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity (lb/yr)
3D PRINT 1	3D PRINT 1	3D Print 001 (Zortrax M200)	Nylon Filament	800
3D PRINT 2	3D PRINT 2	3D Print 002 (Markforged Mark One)		800
3D PRINT 3	3D PRINT 3	3D Print 003 (Lulzbot Taz6, Serial No. KT-PR0041NA-15270)		800
3D PRINT 4	3D PRINT 4	3D Print 004 (Lulzbot Taz6, Serial No. KT-PR0041NA-15149)		800
3D PRINT 7	3D PRINT 7	3D Print 007 (Stratasys Objet30 Pro)		800
3D PRINT 8	3D PRINT 8	3D Print 008 (Ultimaker 3)		800

Applicable Requirements

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

The emissions from these emission points shall not exceed the levels specified below (VOC emissions from these emissions units are accounted for in the permits for the spray booths).

Pollutant: VOC

Emission Limit(s): 245 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Operational Limits & Requirements

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

Reporting & Recordkeeping:

All records as required by this permit shall be kept on site for a minimum of five (5) years and shall be available for inspection by the DNR.

The permittee shall follow the reporting and recordkeeping requirements listed under Plant-Wide Conditions.

These emission units qualify for the Small Unit Exemption under 567 IAC 22.1(2)"w". Records shall be kept in accordance with 567 IAC 22.1(2)"w"(3).

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: C7 WASH BAY

Associated Equipment

Associated Emission Unit ID Numbers: C7 WASH BAY

Emission Units vented through this Emission Point: C7 WASH BAY

Emission Unit Description: C7 Wash Bay

Raw Material/Fuel: Water and Cleaner Chemical

Rated Capacity: 4 gal/min

Applicable Requirements

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

The emissions from these emission points shall not exceed the levels specified below (VOC emissions from these emissions units are accounted for in the permits for the spray booths).

Pollutant: VOC

Emission Limit(s): 245 tons per rolling 12-month period (facility-wide)

Authority for Requirement: DNR Construction Permits in Table 1: Plant Wide Conditions

Operational Limits & Requirements

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

Reporting & Recordkeeping:

All records as required by this permit shall be kept on site for a minimum of five (5) years and shall be available for inspection by the DNR.

The permittee shall follow the reporting and recordkeeping requirements listed under Plant-Wide Conditions.

This emission unit qualifies for the Small Unit Exemption under 567 IAC 22.1(2)"w". Records shall be kept in accordance with 567 IAC 22.1(2)"w"(3).

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: GHG

Associated Equipment

Associated Emission Unit ID Numbers: GHG

Emission Units vented through this Emission Point: GHG
Emission Unit Description: Space Heaters and Water Heaters
Raw Material/Fuel: Natural Gas
Rated Capacity: Individually less than 10 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 (VOC and HAP emissions from this emissions unit are accounted for in the permits for the spray booths).

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

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.8 lbs/MMBtu
Authority for Requirement: 567 IAC 23.3(2)"b"

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

Pollutant: Sulfur Dioxide (SO₂)
Emission Limit(s): 500 ppm
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.

These units shall use natural gas only.

Reporting & Recordkeeping:

All records as required by this permit shall be kept on site for a minimum of five (5) years and shall be available for inspection by the DNR.

The permittee shall follow the additional reporting and recordkeeping requirements listed under Plant-Wide Conditions.

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: C3AL

Associated Equipment

Associated Emission Unit ID Numbers: C3AL

Emission Units vented through this Emission Point: C3AL
Emission Unit Description: Aluminum Oxide Blasting of Steel Parts
Raw Material/Fuel: Aluminum Oxide Grit
Rated Capacity: 4656 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 (VOC and HAP emissions from this emissions unit are accounted for in the permits for the spray booths).

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"

Operational Limits & Requirements

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

Reporting & Recordkeeping:
All records as required by this permit shall be kept on site for a minimum of five (5) years and shall be available for inspection by the DNR.

The permittee shall follow the additional reporting and recordkeeping requirements listed under Plant-Wide Conditions.

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: C3SB

Associated Equipment

Associated Emission Unit ID Numbers: C3SB
Emissions Control Equipment ID Number: CE C3SB
Emissions Control Equipment Description: Dust Collector

Emission Units vented through this Emission Point: C3SB
Emission Unit Description: C3 Shot Blast
Raw Material/Fuel: Steel Shot
Rated Capacity: 5000 lbs/yr

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 (VOC and HAP emissions from this emissions unit are accounted for in the permits for the spray booths).

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"

Operational Limits & Requirements

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

Reporting & Recordkeeping:
All records as required by this permit shall be kept on site for a minimum of five (5) years and shall be available for inspection by the DNR.

The permittee shall follow the additional reporting and recordkeeping requirements listed under Plant-Wide Conditions.

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)

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) 725-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). *567 IAC Chapter 131-State Only*

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a

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

2. Excess Emissions Reporting

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

- i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and expected duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps being taken to remedy the excess emission.
- vi. The steps being taken to limit the excess emission in the interim period.

b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required initial reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.

- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)*

3. Emergency Defense for Excess Emissions. For the purposes of this permit, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The facility at the time was being properly operated;
- c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
- d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice fulfills the requirement of paragraph 22.108(5)"b." – See G15. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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

G15. Permit Deviation Reporting Requirements

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

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

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

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

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:

- a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
- b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
- c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
- d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B));
- e. The changes comply with all applicable requirements.
- f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
 - i. A brief description of the change within the permitted facility,
 - ii. The date on which the change will occur,
 - iii. Any change in emission as a result of that change,
 - iv. The pollutants emitted subject to the emissions trade
 - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
 - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
 - vii. Any permit term or condition no longer applicable as a result of the change.

- 2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), Recordkeeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*
- 3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*
- 4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*
- 5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

- a. An administrative permit amendment is a permit revision that does any of the following:

- i. Correct typographical errors
 - ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
 - iii. Require more frequent monitoring or reporting by the permittee; or
 - iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.
 - b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.
 - c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.
2. Minor Title V Permit Modification.
- a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:
 - i. Do not violate any applicable requirement;
 - ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;
 - iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;
 - iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;
 - v. Are not modifications under any provision of Title I of the Act; and
 - vi. Are not required to be processed as significant modification under rule 567 - 22.113(455B).
 - b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
 - i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
 - ii. The permittee's suggested draft permit;
 - iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
 - iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).
 - c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a"

to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V Permit Modification.

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

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

G19. Duty to Obtain Construction Permits

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

G20. Asbestos

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

G21. Open Burning

The permittee is prohibited from conducting open burning, except as provided in 567 IAC 23.2. *567 IAC 23.2 except 23.2(3)"j"; 567 IAC 23.2(3)"j" - State Only*

G22. Acid Rain (Title IV) Emissions Allowances

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

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

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

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

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*
2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as

practicable, but not later than 18 months after the promulgation of such standards and regulations.

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

G25. Permit Shield

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:

- a. Such applicable requirements are included and are specifically identified in the permit;
- or
- b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.

2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.
3. A permit shield shall not alter or affect the following:
 - a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
 - b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
 - c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
 - d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

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

G27. Property Rights

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

G28. Transferability

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

G29. Disclaimer

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

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

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

altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

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

Stack Test Review Coordinator
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 3

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

Field Office 5

7900 Hickman Road, Suite #200
Windsor Heights, IA 50324
(515) 725-0268

Polk County Public Works Dept.

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

Field Office 2

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

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

V: Appendix

Links to Standards

- A. 40 CFR 63 Subpart A – *General Provisions*
<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.10.63.a>
- B. 40 CFR 63 Subpart ZZZZ – National Emission Standard for Hazardous Air Pollutants for *Stationary Reciprocating Internal Combustion Engines*
<http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr&rgn=div6&view=text&node=40:14.0.1.1.1.1>
- C. 40 CFR 63 Subpart DDDDD – National Emission Standards for Hazardous Air Pollutants for *Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters*
<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.14.63.ddddd>
- D. 40 CFR 63 Subpart CCCCCC – National Emission Standards for Hazardous Air Pollutants for Source Category: *Gasoline Dispensing Facilities*
<https://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&SID=&mc=true&r=PART&n=pt40.16.63#sp40.16.63.ccccc>