Iowa Department of Natural Resources
Title V Operating Permit

Name of Permitted Facility: Industrial Laminates/Norplex Inc.
Facility Location: 665 Lybrand Street
Postville, Iowa 52162
Air Quality Operating Permit Number: 99-TV-039R2-M002
Expiration Date: 4/28/2020
Permit Renewal Application Deadline: 10/28/2019

EIQ Number: 92-3842
Facility File Number: 03-02-001

Responsible Official

Name:	**Mr. Alan Johnson**
Title:	**Plant Manager**
Mailing Address:	**P.O. Box 977**
	665 Lybrand Street
	Postville, Iowa 52162
Phone #:	**(563) 864-4275**

Permit Contact Person for the Facility

Name:	**Tim Delaney**
Title:	**Environmental & Technical Safety Manager**
Mailing Address:	**P.O. Box 977**
	665 Lybrand Street
	Postville, Iowa 52162
Phone #:	**(563) 864-4235**

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

For the Director of the Department of Natural Resources

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Lori Hanson, Supervisor of Air Operating Permits Section Date

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Abbreviations

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

<u>Pollutants</u>
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: Industrial Laminates/Norplex Inc.
Permit Number: 99-TV-039R2-M002

Facility Description: Laminate Products Manufacturing (SIC 3083)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
101-002	101	Storage Tank (Phenolic Resin)	92-A-642-S2
102-002	102	Storage Tank (Phenolic Resin)	92-A-640-S2
103-002	103	Storage Tank (Phenolic Resin)	92-A-641-S2
105-002	105	Storage Tank (Ethanol)	91-A-025-S2
106-002	106	Storage Tank (Toluene)	91-A-026-S2
107-002	107	Storage Tank (Acetone)	91-A-030-S2
108-002	108	Storage Tank (Dimethylformamide)	91-A-027-S2
109-002	109	Storage Tank (Propylene Glycol Monomethyl Ether)	91-A-029-S2
110-002	110	Storage Tank (Isopropyl Alcohol)	91-A-028-S2
122-002	122A	Storage Tank (Epoxy Resin)	NA
104-002	104	Storage Tank (Phenolic Resin)	15-A-280
119-001	Various: See Appendix A for Portable & Fixed Mixing Tank List	Portable & Fixed Mixing Tanks used in Upper Compounding Room	NA
120-001		Portable & Fixed Mixing Tanks used in Upper Compounding Room	
999-008		Portable Mixing Tanks used in Lower Compounding Room	
201-001	201	Treater 201 – Heat Exchanger Exhaust Thermal Oxidizer CE-281	87-A-031-S3
201-002		Treater 201 – Thermal Oxidizer CE-281	04-A-077-S1
201-003		Treater 201 – West End Room Vent	NA
202-001	202	Treater 202	04-A-063-S2
203-001	203	Treater 203 – Zone 1	04-A-064-S1
203-002		Treater 203 – Zone 2	04-A-065-S1
203-003		Treater 203 – Zone 3	04-A-066-S1
203-004		Treater 203 – Zone 4	04-A-067-S1
204-001	204	Treater 204 – Zone 1	04-A-068-S1
204-002		Treater 204 – Zone 2	04-A-069-S1
204-003		Treater 204 – Zone 3	04-A-070-S1
204-004		Treater 204 – Zone 4	04-A-071-S1
206-001	206	Treater 206 – Zone 1	04-A-072-S1
206-002		Treater 206 – Zone 2	04-A-073-S1
206-003		Treater 206 – Zone 3	04-A-074-S1
206-004		Treater 206 – Zone 4	04-A-075-S1

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
207-001	207	Treater 207 – Zone 1	04-A-076-S1
207-002		Treater 207—Zone 1 & 2	N/A
207-003		Treater 207 – Zone 2	88-A-003-S4
207-004		Treater 207 – Zone 3	04-A-078-S1
207-005		Treater 207 – Zone 3	04-A-079-S1
207-006		Treater 207 – Zone 4	04-A-080-S1
280-001	208, 207	Treaters 208 & 207 Zone 1 & 2 – Thermal Oxidizer CE-280	04-A-081
210-001	210	Room vent from West End of Treaters	NA
301-001	301	Press 301	NA
302-001	302	Press 302	NA
303-001	303	Press 303	NA
304-001	304	Press 304	NA
305-001	305	Press 305	NA
306-001	306	Press 306	NA
307-001	307	Press 307	NA
308-001	308	Press 308	NA
309-001	309	Press 309	NA
310-001	310	Press 310	NA
404-001	404	TrimSaw	97-A-601-S3
	405	Saw	
	418	Sander	
	588	Lathe	
	601	Sander	
496-001	496	Post-Bake Oven	95-A-344-S1
495-001	495	Post-Bake Ovens	NA
497-001	497		
498-001	498		
499-001	499		
502-001	502	Tube Roller	16-A-423
530-001	530	Tubing Mandrel Oven	03-A-1358
531-001	531	Tubing Mandrel Oven	03-A-1359
533-001	533	Tubing Mandrel Oven	03-A-1360
534-001	534	Tubing Mandrel Oven	06-A-693
532-001	532	Rolled Tube Heat Treat Oven	13-A-067-S1
535-001	535	Rolled Tube Heat Treat Oven	14-A-254
538-001	538	Rolled Tube Heat Treat Oven	N/A
536-001	536	Rolled Tube Heat Treat Oven	04-A-690
550-001	550	Rolled Tube Hot Oil Heat Treat Bath	04-A-691
674-001	589	Band Saw	NA
596-001	406	Saw	04-A-689-S1
597-001	206 Edge Trim	Edge Trimmer	05-A-960
	207 Edge Trim	Edge Trimmer	

	208 Edge Trim	Edge Trimmer	
598-001	206 Edge Trim	Edge Trimmer	05-A-961
	207 Edge Trim	Edge Trimmer	
	208 Edge Trim	Edge Trimmer	
950-001	Boiler 950	Boiler	73-A-100-S2
951-001 & 952-001	951 & 952	Propane Vaporizers (2)	NA
967-001	10 HP Chopper	10 HP Chopper	NA
969-001	402	Saw	97-A-600-S2
	403	Saw	
	420	Sander	
999-020	020	Solvent Recovery From Batch Still	NA
999-030	030	Sub-Slab Depressurization System	NA
999-501	503	Tube Roller	03-A-1293-S3
	506	Tube Roller	
	508	Tube Roller	
	511	Tube Roller	
	512	Tube Roller	
	562	Wet Grinder	
	563	Wet Grinder	
	564	Wet Grinder	
	569	Wet Grinder	
999-502	507	Tube Roller	03-A-1294-S1
	514	Tube Roller	
	515	Tube Roller	
	518	Tube Roller	
	519	Tube Roller	
	520	Tube Roller	

Insignificant Activities Equipment List

Insignificant Emission Unit Number	**Insignificant Emission Unit Description**
104	Santicizer 160 Storage Tank
308	Hydraulic Oil Tank
935	North Make-up Heater (MU-6)
936	South Make-up Heater (MU-7)
937	Clarifier Make-up Heater (MU-8)
978	Warehouse Make-up Heater
986	Tank Make-up Heater
978	Warehouse Make-up Heater
986	Tank Make-up Heater
975	Shipping Make-up Heater
3253	Maintenance Shop Make-up Heater
998	Fabrication Make-up Heater
-	AAON Make-up Heater

Insignificant Emission Unit Number	Insignificant Emission Unit Description
994	Barrel Shed Make-up Heater
994A	Pole Barn Make-up Heater

II. Plant-Wide Conditions

Facility Name: Industrial Laminates/Norplex Inc.
Permit Number: 99-TV-039R2-M002

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

Permit Duration

The term of this permit is: 5 Years
Commencing on: 4/29/2015
Ending on: 4/28/2020

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 (SO_2): 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"

Particulate Matter:
No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.
For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).
Authority for Requirement: 567 IAC 23.3(2)"a"

Fugitive Dust: Attainment and Unclassified Areas - No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking

reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

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

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

Other New Source Performance Standards (NSPS):

1. Parts of this facility are subject to 40 CFR 60 Subpart A – NSPS General Provisions.

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

2. Parts of this facility are affected facilities under 40 CFR 60 Subpart VVV - Standards of Performance for Polymeric Coating of Supporting Substrates Facilities. The applicable Subpart VVV requirements are included as Emission Point-Specific Conditions.

   Authority for Requirements: 40 CFR 60 Subpart VVV-Polymeric Coating of Supporting Substrates
   567 IAC 23.1(2)"bv"

National Emission Standards for Hazardous Air Pollutants (NESHAP):

1. The facility is subject to 40 CFR 63 Subpart A – NESHAP General Provisions.

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

2. Parts of this facility are subject to 40 CFR, Part 63, Subpart OOOO, National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles (Fabric NESHAP). The compliance date for the Fabric NESHAP for existing affected sources was May 29, 2006. The entire NESHAP rule is included in Section V, Appendix B of this permit. Requirements of the Fabric NESHAP are outlined below.

   Emission Limitations:

   A. Emission Limits - Per § 63.4290, the permittee must meet the emission limit for the subcategory or subcategories (e.g., web coating operation) present at the facility. Table 1 to Subpart OOOO presents the emission limits for an existing affected source in each subcategory.
   B. Compliance Options - § 63.4291 (a)(1) through (5) present the options for meeting the emission limits.
   C. Operating Limits - The permittee shall comply with § 63.4292.
   D. Work Practice Standards – The permittee shall comply with § 63.4293.

   General Compliance Requirements:

   A. § 63.4300 through 63.4301 present the general compliance requirements.

   Notifications, Reports, and Records:

   A. § 63.4310 presents the notification requirements.
   B. § 63.4311 presents the reporting requirements.
   C. § 63.4312 and § 63.4313 presents the record keeping requirements.

   Compliance Requirements for Different Options:

   A. § 63.4320 through 63.4322 present the requirements for the Compliant Material Option.
   B. § 63.4330 through 63.4332 present the requirements for the Emission Rate Without Add-On Controls Option.
   C. § 63.4340 through 63.4342 present the requirements for the Emission Rate With Add-On Controls Option.
   D. § 63.4350 through 63.4352 present the requirements for the Organic HAP Overall Control Efficiency and Oxidizer Outlet Organic HAP Concentration Options.

   Performance Testing and Monitoring Requirements:

   A. §63.4360 through 63.4364 presents the performance testing and monitoring requirements.

   Authority for Requirement: 40 CFR 63 Subpart OOOO
   567 IAC 23.1(4)"co"

40 CFR Part 63 Subpart DDDDD Requirements

This facility is subject to 40 CFR Part 63 Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters. The affected emission points are Boiler, 950-001 and Propane Vaporizers (process heaters) 951-001 and 952-001.

Authority for Requirements: 40 CFR 63 Subpart DDDDD

III. Emission Point-Specific Conditions

Facility Name: Industrial Laminates/Norplex Inc.
Permit Number: 99-TV-039R2-M002

Emission Point ID Number: Raw Material Storage Tanks (see Table 1)

Associated Equipment

Table 1

Emission Point Number	Emission Unit Numbers	Emission Unit Description	Raw Material	Rated Capacity (gallons)
101-002	101	Storage Tank	Phenolic Resin	7,500
102-002	102	Storage Tank	Phenolic Resin	9,000
103-002	103	Storage Tank	Phenolic Resin	9,000
105-002	105	Storage Tank	Ethanol	5,000
106-002	106	Storage Tank	Toluene	4,500
107-002	107	Storage Tank	Acetone	7,500
108-002	108	Storage Tank	Dimethylformamide	7,500
109-002	109	Storage Tank	Propylene Glycol Monomethyl Ether	7,500
110-002	110	Storage Tank	Isopropyl Alcohol	1,500
122-002	122A	Storage Tank	Epoxy Resin	6,400

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.

No requirements at this time.

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

NESHAP

Some of the storage tanks at this facility are subject to the requirements of 40 CFR, Part 63, Subpart OOOO, "National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles". Compliance with the requirements of this regulation was required by May 30, 2006 (*40 CFR 63.4282(b)*).

Authority for Requirement: 40 CFR 63 Subpart OOOO – Fabric NESHAP
567 IAC 23.1(4)"co"

Operating Limits:
There are no operating limits for these emission units at this time.

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

A. A log of each material stored in this emission unit.

B. A copy of the Material Safety Data Sheet (MSDS) for each material stored in this emission unit.

C. For the first twelve (12) months of operation, determine the throughput of each material stored in this emission unit for each month of operation.

D. After the first twelve (12) months of operation, determine the cumulative throughput for each material stored in this emission unit on a rolling twelve (12) month basis for each month of operation.

E. For the first twelve (12) months of operation, determine the total emissions for this emission unit for each month of operation.

F. After the first twelve (12) months of operation, determine the cumulative emissions for this emission unit on a rolling twelve (12) month basis for each month of operation.

Authority for Requirement: DNR Construction Permits specified in Table 2

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Table 2			Stack Characteristics				
Emission Point Number	Emission Unit Number	Construction Permit #	Height (feet)	Discharge Style	Opening Diameter (inches)	Exhaust Temp. (ºF)	Exhaust Flow rate (scfm)
101-002	101	92-A-642-S2	26	Horizontal	2	70	400
102-002	102	92-A-640-S2	26	Horizontal	2	70	400
103-002	103	92-A-641-S2	26	Horizontal	2	70	400
105-002	105	91-A-025-S2	26	Horizontal	2	70	250
106-002	106	91-A-026-S2	26	Horizontal	2	70	300
107-002	107	91-A-030-S2	26	Horizontal	2	70	450
108-002	108	91-A-027-S2	26	Horizontal	2	70	600
109-002	109	91-A-029-S2	26	Horizontal	2	70	700
110-002	110	91-A-028-S2	26	Horizontal	2	70	550

Authority for Requirement: DNR Construction Permits specified in Table 2

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

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

Authority for Requirements: DNR Construction Permits specified in Table 2

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: 104-002

Associated Equipment

Associated Emission Unit ID Numbers: 104

Emission Unit vented through this Emission Point: 104
Emission Unit Description: Tank
Raw Material/Fuel: Phenolic Resin
Rated Capacity: 7,500 gallons

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40% [1]

[1] An exceedance of the indicator opacity of "no visible emissions" will require the owner or 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 Department may require additional proof to demonstrate compliance (e.g., stack testing).

Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permit 15-A-280

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

Operating Limits
Operating limits for this emission unit shall be:

A. The vapor pressure of any material stored in this vessel shall not exceed 5.5 pounds per square inch (psia).

B. The molecular weight of any material stored in this vessel shall not exceed 60 pounds per pound mole (lb/lb-mol).

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

A. Maintain a copy of the MSDS or other vendor's documentation of the showing the composition of each material stored in this tank.

B. Maintain a record of the physical characteristics of each material stored in this tank. This information may be supplied from the vendor or may be determined based on the composition of the material and known values.

Authority for Requirement: DNR Construction Permit 15-A-280

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 26
Stack Opening, (inches, dia.): 2
Exhaust Flow Rate (scfm): 400
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical, obstructed

Authority for Requirement: DNR Construction Permit 15-A-280

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 119-001, 120-001 and 999-008

Associated Equipment

Table 1

Emission Point Number	Emission Unit Numbers	Emission Unit Description	Raw Material	Rated Capacity
119-001	See Appendix A for Portable & Fixed Mixing Tank List	Portable & Fixed Mixing Tanks used in Upper Compounding Room	Resin & Solvent	See Appendix A
120-001		Portable & Fixed Mixing Tanks used in Upper Compounding Room		
999-008		Portable Mixing Tanks used in Lower Compounding Room		

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.

No Emission limits at this time.

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

NSPS

These units are subject to the requirements of 40 CFR Part 60, Subpart VVV, Standards of Performance for polymeric Coating of Supporting Substrates Facilities. In accordance with §60.740(a), the onsite coating mix preparation equipment are affected facilities used to prepare coating for the polymeric coating of supporting substrates. Per EPA guidance, the affected facilities are limited to that mixing equipment serving coating equipment (i.e., Treaters) subject to this subpart.

Treater 208 is currently the only Treater subject to this standard. Therefore, for the coating mix preparation equipment used for Treater 208:

1. Standards for VOCs: Each owner or operator of an affected facility shall install, operate and maintain a cover on each piece of affected coating mix preparation equipment and vent VOC emissions from the covered mix equipment to a 95 percent efficient control device while preparation of the coating is taking place within the vessel. (*40 CFR 60.742(c)(1)*)
2. Compliance provisions: To demonstrate compliance with §60.742(c)(1), Each owner or operator of an affected facility shall demonstrate that:
    a. Covers meeting the following specification have been installed and are being used properly:

i. Cover shall be closed at all times except when adding ingredients, withdrawing samples, transferring the contents, or making visual inspection when such activities cannot be carried out with cover in place. Such activities shall be carried out through ports of the minimum practical size;
ii. Cover shall extend at least 2 centimeters beyond the outer rim of the opening or shall be attached to the rim;
iii. Cover shall be of such design and construction that contact is maintained between cover and rim along the entire perimeter.
iv. Any breach in the cover (such as a slit for insertion of a mixer shaft or port for addition of ingredients) shall be covered consistent with paragraphs 2.(a)(i), (ii), and (iii) of this section when not actively in use. An opening sufficient to allow safe clearance for a mixer shaft is acceptable during those periods when the shaft is in place; and
v. A polyethylene or nonpermanent cover may be used provided it meets the requirements of paragraphs 2.(a)(ii), (iii), and (iv) of this section. Such a cover shall not be reused after once being removed;

b. Procedures detailing the proper use of covers, as specified in paragraph 2.(a)(i) of this section, have been posted in all areas where affected coatings mix preparation equipment is used;
c. The coating mix preparation equipment is vented to a control device while preparation of the coating is taking place within the vessel; and
d. The control device efficiency determined using Equation (1) or Equations (3) and (4), respectively, and the test methods and procedures specified in §60.745(b) through (g) is equal to or greater than 0.95. (*40 CFR 60.743(c)*)

<u>Monitoring Requirements</u>

3. Each owner or operator of an affected facility shall install and calibrate all monitoring devices required under the provisions of this section according to the manufacturer's specifications, prior to the initial performance test in locations such that representative values of the monitored parameters will be obtained. The parameters to be monitored shall be continuously measured and recorded during each performance test. (*40 CFR 60.744(a)*)
4. Each owner or operator of an affected facility shall record time periods of mixing or coating operations when the emission control device is malfunctioning or not in use. (*40 CFR 60.744(i)*)
5. Each owner or operator of an affected facility shall record time periods of mixing or coating operations when each monitoring device is malfunctioning or not in use. (*40 CFR 60.744(j)*)

Authority for Requirement: 40 CFR 60 Subpart VVV
567 IAC 23.1(2)"iii"

NESHAP

The coating mix preparation equipment at this facility are subject to the requirements of 40 CFR, Part 63, Subpart OOOO, "National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles". Compliance with the requirements of this regulation was required by May 30, 2006 (*40 CFR 63.4282(b)*).

Authority for Requirement: 40 CFR 63 Subpart OOOO – Fabric NESHAP
567 IAC 23.1(4)"co"

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: Treater 201 (see Table 1)

Associated Equipment

Emissions Control Equipment ID Number: CE-281
Emissions Control Equipment Description: Thermal Oxidizer

Table 1

Emission Point Number	Emission Unit Numbers	Emission Unit Description	Raw Material	Rated Capacity
201-001	201	Treater 201 – Heat Exchanger Exhaust from CE-281	Compounded Resin Coat of Web Material	7,506 sq.ft./hr
201-002		Treater 201 – CE-281	Natural Gas, Propane (back-up)	2.0 MMBtu/hr
201-003		Treater 201 – Room Vent	Clean-up solvent	3,354 scfm

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)]
[(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).
Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permits 87-A-031-S3 and 04-A-077-S1

Pollutant: Particulate Matter
Emission Limit(s): 0.1gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permits 87-A-031-S3 and 04-A-077-S1

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)
DNR Construction Permits 87-A-031-S3 and 04-A-077-S1

Table 2

Emission Point Number	Emission Unit Number	PM (lb/hr) Limit	PM_{10} (lb/hr) Limit	VOC (tons per 12 month rolling period) [2]	DNR Construction Permit #
201-001	201	0.15	0.15	33	87-A-031-S3
201-002		0.74	0.74		04-A-077-S1
201-003		--	--		NA

[2] The VOC limit for the Treater 201 is 33 tons per any rolling 12-month period. The combined VOC limit for Treater 201, Treater 202, Treater 203, Treater 204, Treater 206, Treater 207 is 961.6 tons per any rolling 12-month period.

Authority for Requirement: DNR Construction Permits 87-A-031-S3 and 04-A-077-S1

Operational Limits & Requirements

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

NESHAP

A. The Treaters at this facility are subject to the requirements of 40 CFR, Part 63, Subpart OOOO, "National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles". Compliance with the requirements of this regulation was required by May 29, 2006. An initial notification report was received on April 24, 2002.

   Authority for Requirement: 40 CFR 63 Subpart OOOO – Fabric NESHAP
   567 IAC 23.1(4)"co"
   DNR Construction Permits 87-A-031-S3 and 04-A-077-S1

B. The clean-up solvent equipment at this facility is subject to the requirements of 40 CFR, Part 63, Subpart OOOO, "National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles." Compliance with the requirements of this regulation was required by May 30, 2006. (*40 CFR 63.4282(b)*)

   Authority for Requirement: 40 CFR 63 Subpart OOOO – Fabric NESHAP
   567 IAC 23.1(4)"co"

Operating Limits

Operating limits for this emission unit shall be:

A. Treater 201 shall comply with the applicable requirements of Table 1 to Subpart OOOO as an existing coating affected source.

B. Treater 201 shall comply with all applicable requirements of §63.4292, operating limits, § 63.4293, work practice standards, § 63.4300 and § 63.4301, General Compliance Requirements, § 63.4350 through § 63.4352, and §63.4360 through § 64.4364.

C. The temperature of the thermal oxidizer shall be maintained at a minimum of 1165 degrees Fahrenheit. This was the average temperature measured during the most recent compliance stack test.

D. The Treater oven shall be heated by infrared heating elements. Prior to burning any fuel in this unit, the permittee shall apply for, and obtain, a new construction permit from the DNR.

Reporting and Recordkeeping:

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

A. The permittee shall continuously monitor the exit gas temperature of the thermal incinerator when Treater 201 is in operation.

B. Treater 201 shall comply with all applicable requirements of §63.4363 and §63.4364.

C. The permittee shall maintain daily records on the identification, the amount (pounds) and the VOC content (% by weight) of each coating and solvent used in Treater 201.

D. The permittee shall maintain the following monthly records:

i. The identification, the VOC content (% by weight) and the amount (pounds) of each coating and solvent used in the Treaters 201, 202, 203, 204, 206, and 207.

ii. The monthly VOC emission rate from Treater 201 (tons). The monthly VOC emissions from Treater 201 shall be determined by the following equation:

$$EVOC = (\sum (PUi \times VOCi)) \times CE \times (1 - DE) \times 1/2000$$

Where,
EVOC = tons of VOC emitted from Treater 201
PUi= pounds of an individual coating or solvent used that month in Treater 201
VOCi = VOC content of an individual coating or solvent (% by weight) used in Treater 201
CE = capture efficiency (% of VOC captured and vented to the thermal oxidizer); CE is equal to 1 if the line and oven are equipped with a permanent total enclosure
DE = destruction efficiency of the thermal oxidizer determined by the most recent stack test that demonstrated compliance

iii. The rolling, 12-month total of the VOC emission rate from Treater 201 (tons).

iv. The total monthly VOC emission rate from the following emissions units: Treater 201, Treater 202, Treater 203, Treater 204, Treater 206, and Treater 207. The permittee shall maintain monthly emissions information for each of the emissions units. The monthly VOC emissions from Treater 201, Treater 202, Treater 203, Treater 204, Treater 206, and Treater 207 shall be determined by the following equations:

$$Totalvoc = \sum Evoci$$

Where,
Totalvoc = total monthly actual VOC emissions from Treater 201, Treater 202, Treater 203, Treater 204, Treater 206 and Treater 207
Evoci = monthly actual VOC emissions from each Treater, determined by the following:

$$EVOC = (\sum (PUi \times VOCi)) \times CE \times (1 - DE) \times 1/2000$$

Where,
EVOC = tons of VOC emitted from a Treater
PUi = pounds of an individual coating or solvent used that month
VOCi = VOC content of an individual coating or solvent (% by weight)
CE* = capture efficiency (% of VOC captured and vented to the thermal oxidizer); CE is equal to 1 if the line and oven are equipped with a permanent total enclosure
DE* = destruction efficiency of control device determined by the most recent stack test that demonstrated compliance;
* Not used if the Treater is not vented to an air pollution control device.

v. The rolling, 12-month total of the VOC emission rate from Treater 201, Treater 202, Treater 203, Treater 204, Treater 206 and Treater 207 (tons).

E. The permittee shall maintain records and submit quarterly reports to the DNR documenting the following:

i. All 3-hour blocks of time when Treater 201 was in operation during which the average combustion temperature of the thermal oxidizer was below 1165 degrees Fahrenheit.

These reports shall be submitted no later than 30 days from the end of each calendar quarter. The first quarter shall cover January 1 to March 31. The second quarter shall cover April 1 to June 30. The third quarter shall cover July 1 to September 30. The fourth quarter shall cover October 1 to December 31.

If no deviations occurred during a calendar quarter, no report is required to be submitted.

F. The permittee shall maintain all records as required by § 63.4312.

G. The permittee shall submit all notifications and reports required by §63.4310 and § 63.4311.

H. The permittee shall submit deviation reports that identify all exceedances of the rolling 12-month emission limitation for VOC for Treater 201. The report shall be submitted no later than 30 days from the end of the month in which the exceedance had occurred.

I. The permittee shall submit deviation reports that identify all exceedances of the rolling 12-month combined emission limitation for VOC for Treater 201, Treater 202, Treater 203,

Treater 204, Treater 206 and Treater 207. The report shall be submitted no later than 30 days from the end of the month in which the exceedance had occurred.

Authority for Requirement: DNR Construction Permits 87-A-031-S3 and 04-A-077-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table 3			Stack Characteristics				
Emission Point Number	Emission Unit Number	Construction Permit #	Height (feet)	Discharge Style	Opening Diameter (inches)	Exhaust Temp. (°F)	Exhaust Flow rate (scfm)
201-001	201	87-A-031-S3	36.8	Vertical, unobstructed	12 x 12	250	2693
201-002		04-A-077-S1	50	Vertical, unobstructed	18	930	2693

Authority for Requirement: DNR Construction Permits 87-A-031-S3 and 04-A-077-S1

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

Monitoring Requirements

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

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

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

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

See CAM Plan in Appendix A

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 202-001

Associated Equipment

Associated Emission Unit ID Numbers: 202

Emission Unit vented through this Emission Point: 202
Emission Unit Description: Treater 202
Raw Material/Fuel: Compounded Resin Coat of Web Material and Natural Gas, Propane (back-up)
Rated Capacity: 6,750 sq.ft./hr, 4.5 MMBtu/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40% [(1)]
[(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).
Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permit 04-A-063-S2

Pollutant: PM_{10}
Emission Limit(s): 0.664 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-063-S2

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf, 0.664 lb/hr
Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permit 04-A-063-S2

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)
DNR Construction Permit 04-A-063-S2

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 961.6 tons per 12-month rolling total [(2)]
[(2)] Combined VOC limit for Treater 201, Treater 202, Treater 203, Treater 204, Treater 206, Treater 207 is 961.6 tons per any rolling 12-month period.
Authority for Requirement: DNR Construction Permit 04-A-063-S2

Pollutant: Hazardous Air Pollutants (HAPs)
Emission Limit(s): See Footnote [(3)]

(3) The facility is required to meet the organic HAP emission limits found in Table 1 to NESHAP - Subpart OOOO of 40 CFR Part 63.

Authority for Requirement: 567 IAC 23.1(4)"co"
DNR Construction Permit 04-A-063-S2

Operational Limits & Requirements

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

NESHAP

The Treaters at this facility are subject to the requirements of 40 CFR, Part 63, Subpart OOOO, "National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles". Compliance with the requirements of this regulation was required by May 30, 2006. An initial notification report was received on April 24, 2002.

Authority for Requirement: DNR Construction Permit 04-A-063-S2
567 IAC 23.1(4)"co"
40 CFR 63 Subpart OOOO – Fabric NESHAP

Operating Limits

Operating limits for this emission unit shall be:

A. Treater 202 shall comply with the applicable requirements of Table 1 to Subpart OOOO (40 CFR Part 63) as an existing coating affected source.

B. Treater 202 shall comply with all applicable requirements of § 63.4300 and § 63.4301, General Compliance Requirements, § 63.4320 through § 63.4322, and §63.4330 through § 64.4332 (40 CFR Part 63).

C. Treater oven 202 shall be heated by natural gas or LPG only. Prior to burning any other fuel in this unit, the permittee shall apply for, and obtain, a new construction permit from the DNR. The maximum heat input for Treater oven 202 is 4.5 MMBTU/hr.

D. The maximum coating capacity of Treater 202 is 6,750 square feet per hour.

Reporting and Recordkeeping:

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

A. The permittee shall maintain daily records on the identification, the amount (pounds) and the VOC content of each coating and solvent (% by weight) used in Treater 202.

B. The permittee shall maintain the following monthly records:
   i. The identification, the VOC content (% by weight) and the amount (pounds) of each coating and solvent used in the Treaters 201, 202, 203, 204, 206, and 207.

ii. The total monthly VOC emission rate from the following emissions units: Treater 201, Treater 202, Treater 203, Treater 204, Treater 206, and Treater 207. The permittee shall maintain monthly emissions information for each of the emissions units.
The monthly VOC emissions from Treater 201, Treater 202, Treater 203, Treater 204, Treater 206, and Treater 207 shall be determined by the following equations:
$Total_{voc} = \sum E_{voci}$
Where,
$Total_{voc}$ = total monthly actual VOC emissions from Treater 201, Treater 202, Treater 203, Treater 204, Treater 206 and Treater 207
E_{voci} = monthly actual VOC emissions from each Treater, determined by the following:
$E_{VOC} = (\sum (PU_i \times VOC_i)) \times CE \times (1 - DE) \times 1/2000$
Where,
E_{VOC} = tons of VOC emitted from a Treater
PU_i = pounds of an individual coating or solvent used that month
VOC_I = VOC content of an individual coating or solvent (% by weight)
CE* = capture efficiency (% of VOC captured and vented to the thermal oxidizer); CE is equal to 1 if the line and oven are equipped with a permanent total enclosure
DE* = destruction efficiency of control device determined by the most recent stack test that demonstrated compliance;
* Not used if the Treater is not vented to an air pollution control device.

iii. The rolling, 12-month total of the VOC emission rate from Treater 201, Treater 202, Treater 203, Treater 204, Treater 206 and Treater 207 (tons).

C. The permittee shall maintain all records as required by § 63.4312.

D. The permittee shall submit all notifications and reports required by §63.4310 and § 63.4311.

E. The permittee shall submit deviation reports that identify all exceedances of the rolling 12-month combined emission limitation for VOC for Treater 201, Treater 202, Treater 203, Treater 204, Treater 206 and Treater 207. The report shall be submitted no later than 30 days from the end of the month in which the exceedance had occurred.

Authority for Requirement: DNR Construction Permit 04-A-063-S2

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 45
Stack Opening, (inches, dia.): 30
Exhaust Flow Rate (scfm): 10,268 [(1)]
Exhaust Temperature (°F): 255
Discharge Style: Vertical, unobstructed
[(1)] The emission point is vented to the atmosphere by a variable-speed fan. The exhaust flow rate presented in the above table indicates the maximum flow rate (scfm) of this fan.
Authority for Requirement: DNR Construction Permit 04-A-063-S2

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: Treater 203 (see Table 1)

Associated Equipment

Table 1

Emission Point Number	Emission Unit Numbers	Emission Unit Description	Raw Material	Rated Capacity (raw material)	Rated Capacity (fuel) (MMBtu/hr)
203-001	203	Treater 203 – Zone 1	Compounded Resin Coat of Web Material, Natural Gas, Propane (back-up)	25,000 sq.ft./hr	3.5
203-002		Treater 203 – Zone 2			3.5
203-003		Treater 203 – Zone 3			3.5
203-004		Treater 203 – Zone 4			3.5

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)]

[(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).

Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permits 04-A-064-S1, 04-A-065-S1, 04-A-066-S1 and 04-A-067-S1

Pollutant: Particulate Matter
Emission Limit(s): 0.1gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permits 04-A-064-S1, 04-A-065-S1, 04-A-066-S1 and 04-A-067-S1

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)
DNR Construction Permits 04-A-064-S1, 04-A-065-S1, 04-A-066-S1 and 04-A-067-S1

Table 2

Emission Point Number	Emission Unit Number	PM (lb/hr) Limit	PM_{10} (lb/hr) Limit	VOC (tons per 12 month rolling period) [2]	DNR Construction Permit #
203-001	203	0.51	0.51	961.6	04-A-064-S1
203-002		2.46	2.46		04-A-065-S1
203-003		2.24	2.24		04-A-066-S1
203-004		1.05	1.05		04-A-067-S1

[2] The combined VOC limit for Treater 201, Treater 202, Treater 203, Treater 204, Treater 206, Treater 207 is 961.6 tons per any rolling 12-month period.

Authority for Requirement: DNR Construction Permits 04-A-064-S1, 04-A-065-S1, 04-A-066-S1 and 04-A-067-S1

Operational Limits & Requirements

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

NESHAP

The Treaters at this facility are subject to the requirements of 40 CFR, Part 63, Subpart OOOO, "National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles". Compliance with the requirements of this regulation was required by May 30, 2006. An initial notification report was received on April 24, 2002.

Authority for Requirement: 40 CFR 63 Subpart OOOO – Fabric NESHAP
567 IAC 23.1(4)"co"
DNR Construction Permits 04-A-064-S1, 04-A-065-S1, 04-A-066-S1, and 04-A-067-S1

Operating Limits

Operating limits for this emission unit shall be:

A. Treater 203 shall comply with the applicable requirements of Table 1 to Subpart OOOO (40 CFR Part 63) as an existing coating affected source.

B. Treater 203 shall comply with all applicable requirements of § 63.4300 and § 63.4301, General Compliance Requirements, § 63.4320 through § 63.4322, and §63.4330 through § 64.4332 (40 CFR Part 63).

C. Treater oven 203 shall be heated by natural gas or LPG only. Prior to burning any other fuel in this unit, the permittee shall apply for, and obtain, a new construction permit from the DNR. The maximum heat input for Treater oven 203 – zone 1 is 3.5 MMBtu/hr, zone 2 is 3.5 MMBtu/hr, zone 3 is 3.5 MMBtu/hr, and zone 4 is 3.5 MMBtu/hr.

D. The maximum coating capacity of Treater 203 is 25,000 square feet per hour.

Reporting and Recordkeeping:

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

A. The permittee shall maintain daily records on the identification, the amount (pounds) and the VOC content of each coating and solvent (% by weight) used in Treater 203.

B. The permittee shall maintain the following monthly records:
   i. The identification, the VOC content (% by weight) and the amount (pounds) of each coating and solvent used in the Treaters 201, 202, 203, 204, 206, and 207.
   ii. The total monthly VOC emission rate from the following emissions units: Treater 201, Treater 202, Treater 203, Treater 204, Treater 206, and Treater 207. The permittee shall maintain monthly emissions information for each of the emissions units.
   The monthly VOC emissions from Treater 201, Treater 202, Treater 203, Treater 204, Treater 206, and Treater 207 shall be determined by the following equations:
   $Total_{voc} = \sum E_{voci}$
   Where,
   $Total_{voc}$ = total monthly actual VOC emissions from Treater 201, Treater 202, Treater 203, Treater 204, Treater 206 and Treater 207
   E_{voci} = monthly actual VOC emissions from each Treater, determined by the following:
   $E_{VOC} = (\sum (PU_i \text{ x } VOC_i)) \text{ x } CE \text{ x } (1 – DE) \text{ x } 1/2000$
   Where,
   E_{VOC} = tons of VOC emitted from a Treater
   PU_i = pounds of an individual coating or solvent used that month
   VOC_I = VOC content of an individual coating or solvent (% by weight)
   CE* = capture efficiency (% of VOC captured and vented to the thermal oxidizer); CE is equal to 1 if the line and oven are equipped with a permanent total enclosure
   DE* = destruction efficiency of control device determined by the most recent stack test that demonstrated compliance;
   * Not used if the Treater is not vented to an air pollution control device.
   iii. The rolling, 12-month total of the VOC emission rate from Treater 201, Treater 202, Treater 203, Treater 204, Treater 206 and Treater 207 (tons).

C. The permittee shall maintain all records as required by § 63.4312.

D. The permittee shall submit all notifications and reports required by §63.4310 and § 63.4311.

E. The permittee shall submit deviation reports that identify all exceedances of the rolling 12-month combined emission limitation for VOC for Treater 201, Treater 202, Treater 203, Treater 204, Treater 206 and Treater 207. The report shall be submitted no later than 30 days from the end of the month in which the exceedance had occurred.

Authority for Requirement: DNR Construction Permits 04-A-064-S1, 04-A-065-S1, 04-A-066-S1, and 04-A-067-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table 3			Stack Characteristics				
Emission Point Number	Emission Unit Number	Construction Permit #	Height (feet)	Discharge Style	Opening Diameter (inches)	Exhaust Temp. (°F)	Exhaust Flow rate (scfm)
203-001	203	04-A-064-S1	45	Vertical, unobstructed	51	189	13,336
203-002		04-A-065-S1	70	Vertical, unobstructed	51	280	9,742
203-003		04-A-066-S1	70	Vertical, unobstructed	51	286	10,391
203-004		04-A-067-S1	50	Vertical, unobstructed	51	227	11,375

Authority for Requirement: DNR Construction Permits 04-A-064-S1, 04-A-065-S1, 04-A-066-S1, and 04-A-067-S1

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: Treater 204 (see Table 1)

Associated Equipment

Table 1

Emission Point Number	Emission Unit Numbers	Emission Unit Description	Raw Material	Rated Capacity (raw material)	Rated Capacity (fuel) (MMBtu/hr)
204-001	204	Treater 204 – Zone 1	Compounded Resin Coat of Web Material, Natural Gas, Propane (back-up)	25,000 sq.ft./hr	3.5
204-002		Treater 204 – Zone 2			3.5
204-003		Treater 204 – Zone 3			3.5
204-004		Treater 204 – Zone 4			3.5

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)]

[(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).

Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permits 04-A-068-S1, 04-A-069-S1, 04-A-070-S1, and 04-A-071-S1

Pollutant: Particulate Matter
Emission Limit(s): 0.1gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permits 04-A-068-S1, 04-A-069-S1, 04-A-070-S1, and 04-A-071-S1

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)
DNR Construction Permits 04-A-068-S1, 04-A-069-S1, 04-A-070-S1, and 04-A-071-S1

Table 2

Emission Point Number	Emission Unit Number	PM (lb/hr) Limit	PM_{10} (lb/hr) Limit	VOC (tons per 12 month rolling period) [2]	DNR Construction Permit #
204-001	204	0.51	0.51	961.6	04-A-068-S1
204-002		2.46	2.46		04-A-069-S1
204-003		2.24	2.24		04-A-070-S1
204-004		1.05	1.05		04-A-071-S1

[2] The combined VOC limit for Treater 201, Treater 202, Treater 203, Treater 204, Treater 206, Treater 207 is 961.6 tons per any rolling 12-month period.

Authority for Requirement: DNR Construction Permits 04-A-068-S1, 04-A-069-S1, 04-A-070-S1, and 04-A-071-S1

Operational Limits & Requirements

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

NESHAP

The Treaters at this facility are subject to the requirements of 40 CFR, Part 63, Subpart OOOO, "National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles". Compliance with the requirements of this regulation was required by May 30, 2006. An initial notification report was received on April 24, 2002.

Authority for Requirement: DNR Construction Permits 04-A-068-S1, 04-A-069-S1, 04-A-070-S1, and 04-A-071-S1
567 IAC 23.1(4)"co"
40 CFR 63 Subpart OOOO – Fabric NESHAP

Operating Limits

Operating limits for this emission unit shall be:

A. Treater 204 shall comply with the applicable requirements of Table 1 to Subpart OOOO (40 CFR Part 63) as an existing coating affected source.

B. Treater 204 shall comply with all applicable requirements of § 63.4300 and § 63.4301, General Compliance Requirements, § 63.4320 through § 63.4322, and §63.4330 through § 64.4332 (40 CFR Part 63).

C. Treater oven 204 shall be heated by natural gas or LPG only. Prior to burning any other fuel in this unit, the permittee shall apply for, and obtain, a new construction permit from the DNR. The maximum heat input for Treater oven 204 – zone 1 is 3.5 MMBtu/hr, zone 2 is 3.5 MMBtu/hr, zone 3 is 3.5 MMBtu/hr, and zone 4 is 3.5 MMBtu/hr.

D. The maximum coating capacity of Treater 204 is 25,000 square feet per hour.

Reporting and Recordkeeping:

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

A. The permittee shall maintain daily records on the identification, the amount (pounds) and the VOC content of each coating and solvent (% by weight) used in Treater 204.

B. The permittee shall maintain the following monthly records:
   i. The identification, the VOC content (% by weight) and the amount (pounds) of each coating and solvent used in the Treaters 201, 202, 203, 204, 206, and 207.
   ii. The total monthly VOC emission rate from the following emissions units: Treater 201, Treater 202, Treater 203, Treater 204, Treater 206, and Treater 207. The permittee shall maintain monthly emissions information for each of the emissions units.
   The monthly VOC emissions from Treater 201, Treater 202, Treater 203, Treater 204, Treater 206, and Treater 207 shall be determined by the following equations:
   $Total_{voc} = \sum E_{voci}$
   Where,
   $Total_{voc}$ = total monthly actual VOC emissions from Treater 201, Treater 202, Treater 203, Treater 204, Treater 206 and Treater 207
   E_{voci} = monthly actual VOC emissions from each Treater, determined by the following:
   $E_{VOC} = (\sum (PU_i \text{ x } VOC_i)) \text{ x } CE \text{ x } (1 – DE) \text{ x } 1/2000$
   Where,
   E_{VOC} = tons of VOC emitted from a Treater
   PU_i = pounds of an individual coating or solvent used that month
   VOC_I = VOC content of an individual coating or solvent (% by weight)
   CE* = capture efficiency (% of VOC captured and vented to the thermal oxidizer); CE is equal to 1 if the line and oven are equipped with a permanent total enclosure
   DE* = destruction efficiency of control device determined by the most recent stack test that demonstrated compliance;
   * Not used if the Treater is not vented to an air pollution control device.
   iii. The rolling, 12-month total of the VOC emission rate from Treater 201, Treater 202, Treater 203, Treater 204, Treater 206 and Treater 207 (tons).

C. The permittee shall maintain all records as required by § 63.4312.

D. The permittee shall submit all notifications and reports required by §63.4310 and § 63.4311.

E. The permittee shall submit deviation reports that identify all exceedances of the rolling 12-month combined emission limitation for VOC for Treater 201, Treater 202, Treater 203, Treater 204, Treater 206 and Treater 207. The report shall be submitted no later than 30 days from the end of the month in which the exceedance had occurred.

Authority for Requirement: DNR Construction Permits 04-A-068-S1, 04-A-069-S1, 04-A-070-S1, and 04-A-071-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table 3			Stack Characteristics				
Emission Point Number	Emission Unit Number	Construction Permit #	Height (feet)	Discharge Style	Opening Diameter (inches)	Exhaust Temp. (°F)	Exhaust Flow rate (scfm)
204-001	204	04-A-068-S1	45	Vertical, unobstructed	51	189	12,388
204-002		04-A-069-S1	60	Vertical, unobstructed	51	280	12,388
204-003		04-A-070-S1	60	Vertical, unobstructed	51	265	12,388
204-004		04-A-071-S1	50	Vertical, unobstructed	51	227	12,388

Authority for Requirement: DNR Construction Permits 04-A-068-S1, 04-A-069-S1, 04-A-070-S1, and 04-A-071-S1

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: Treater 206 (see Table 1)

Associated Equipment

Table 1

Emission Point Number	Emission Unit Numbers	Emission Unit Description	Raw Material	Rated Capacity (raw material)	Rated Capacity (fuel) (MMBtu/hr)
206-001	206	Treater 206 – Zone 1	Compounded Resin Coat of Web Material, Natural Gas, Propane (back-up)	8,750 sq.ft./hr	1.6
206-002		Treater 206 – Zone 2			1.5
206-003		Treater 206 – Zone 3			1.5
206-004		Treater 206 – Zone 4			1.5

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)]

[(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).

Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permits 04-A-072-S1, 04-A-073-S1, 04-A-074-S1, and 04-A-075-S1

Pollutant: Particulate Matter
Emission Limit(s): 0.1gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permits 04-A-072-S1, 04-A-073-S1, 04-A-074-S1, and 04-A-075-S1

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)
DNR Construction Permits 04-A-072-S1, 04-A-073-S1, 04-A-074-S1, and 04-A-075-S1

Table 2

Emission Point Number	Emission Unit Number	PM (lb/hr) Limit	PM_{10} (lb/hr) Limit	VOC (tons per 12 month rolling period) [2]	DNR Construction Permit #
206-001	206	0.18	0.18	961.6	04-A-072-S1
206-002		0.86	0.86		04-A-073-S1
206-003		0.78	0.78		04-A-074-S1
206-004		0.37	0.37		04-A-075-S1

[2] The combined VOC limit for Treater 201, Treater 202, Treater 203, Treater 204, Treater 206, Treater 207 is 961.6 tons per any rolling 12-month period.

Authority for Requirement: DNR Construction Permits 04-A-072-S1, 04-A-073-S1, 04-A-074-S1, and 04-A-075-S1

Operational Limits & Requirements

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

NESHAP

The Treaters at this facility are subject to the requirements of 40 CFR, Part 63, Subpart OOOO, "National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles". Compliance with the requirements of this regulation was required by May 30, 2006. An initial notification report was received on April 24, 2002.

Authority for Requirement: 40 CFR 63 Subpart OOOO – Fabric NESHAP
567 IAC 23.1(4)"co"
DNR Construction Permits 04-A-072-S1, 04-A-073-S1, 04-A-074-S1, and 04-A-075-S1

Operating Limits

Operating limits for this emission unit shall be:

A. Treater 206 shall comply with the applicable requirements of Table 1 to Subpart OOOO (40 CFR Part 63) as an existing coating affected source.

B. Treater 206 shall comply with all applicable requirements of § 63.4300 and § 63.4301, General Compliance Requirements, § 63.4320 through § 63.4322, and §63.4330 through § 64.4332 (40 CFR Part 63).

C. Treater oven 206 shall be heated by natural gas or LPG only. Prior to burning any other fuel in this unit, the permittee shall apply for, and obtain, a new construction permit from the DNR. The maximum heat input for Treater oven 206 – zone 1 is 1.6 MMBtu/hr, zone 2 is 1.5 MMBtu/hr, zone 3 is 1.5 MMBtu/hr, and zone 4 is 1.5 MMBtu/hr.

D. The maximum coating capacity of Treater 206 is 8,750 square feet per hour.

Reporting and Recordkeeping:

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

A. The permittee shall maintain daily records on the identification, the amount (pounds) and the VOC content of each coating and solvent (% by weight) used in Treater 206.

B. The permittee shall maintain the following monthly records:
   i. The identification, the VOC content (% by weight) and the amount (pounds) of each coating and solvent used in the Treaters 201, 202, 203, 204, 206, and 207.
   ii. The total monthly VOC emission rate from the following emissions units: Treater 201, Treater 202, Treater 203, Treater 204, Treater 206, and Treater 207. The permittee shall maintain monthly emissions information for each of the emissions units.
   The monthly VOC emissions from Treater 201, Treater 202, Treater 203, Treater 204, Treater 206, and Treater 207 shall be determined by the following equations:
   $Total_{voc} = \sum E_{voci}$
   Where,
   $Total_{voc}$ = total monthly actual VOC emissions from Treater 201, Treater 202, Treater 203, Treater 204, Treater 206 and Treater 207
   E_{voci} = monthly actual VOC emissions from each Treater, determined by the following:
   $E_{VOC} = (\sum (PU_i \text{ x } VOC_i)) \text{ x } CE \text{ x } (1 – DE) \text{ x } 1/2000$
   Where,
   E_{VOC} = tons of VOC emitted from a Treater
   PU_i = pounds of an individual coating or solvent used that month
   VOC_I = VOC content of an individual coating or solvent (% by weight)
   CE* = capture efficiency (% of VOC captured and vented to the thermal oxidizer); CE is equal to 1 if the line and oven are equipped with a permanent total enclosure
   DE* = destruction efficiency of control device determined by the most recent stack test that demonstrated compliance;
   * Not used if the Treater is not vented to an air pollution control device.
   iii. The rolling, 12-month total of the VOC emission rate from Treater 201, Treater 202, Treater 203, Treater 204, Treater 206 and Treater 207 (tons).

C. The permittee shall maintain all records as required by § 63.4312.

D. The permittee shall submit all notifications and reports required by §63.4310 and § 63.4311.

E. The permittee shall submit deviation reports that identify all exceedances of the rolling 12-month combined emission limitation for VOC for Treater 201, Treater 202, Treater 203, Treater 204, Treater 206 and Treater 207. The report shall be submitted no later than 30 days from the end of the month in which the exceedance had occurred.

Authority for Requirement: DNR Construction Permits 04-A-072-S1, 04-A-073-S1, 04-A-074-S1, and 04-A-075-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table 3			Stack Characteristics				
Emission Point Number	Emission Unit Number	Construction Permit #	Height (feet)	Discharge Style	Opening Diameter (inches)	Exhaust Temp. (°F)	Exhaust Flow rate (scfm)
206-001	206	04-A-072-S1	32.2	Vertical, unobstructed	27	225	7584
206-002		04-A-073-S1	50	Vertical, unobstructed	27	300	5160
206-003		04-A-074-S1	60	Vertical, unobstructed	27	300	4729
206-004		04-A-075-S1	45	Vertical, unobstructed	27	300	4847

Authority for Requirement: DNR Construction Permits 04-A-072-S1, 04-A-073-S1, 04-A-074-S1, and 04-A-075-S1

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: Treater 207 (see Table 1)

Associated Equipment

Table 1

Emission Point Number	Emission Unit Numbers	Emission Unit Description	Raw Material	Rated Capacity (raw material)	Rated Capacity (fuel) (MMBtu/hr)
207-001	207	Treater 207 – Zone 1	Compounded Resin Coat of Web Material, Natural Gas, Propane (back-up)	25,000 sq.ft./hr	1.5
207-002		Treater 207—Zone 1 & 2			1.5 & 1.5
207-003		Treater 207 – Zone 2			1.5
207-004		Treater 207 – Zone 3			1.5
207-005		Treater 207 – Zone 3			1.5
207-006		Treater 207 – Zone 4			1.35

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)]

[(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).

Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permits 04-A-076-S1, 88-A-003-S4, 04-A-078-S1, 04-A-079-S1, and 04-A-080-S1

Pollutant: Particulate Matter
Emission Limit(s): 0.1gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permits 04-A-076-S1, 88-A-003-S4, 04-A-078-S1, 04-A-079-S1, and 04-A-080-S1

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)
DNR Construction Permits 04-A-076-S1, 88-A-003-S4, 04-A-078-S1, 04-A-079-S1, and 04-A-080-S1

Table 2

Emission Point Number	Emission Unit Number	PM (lb/hr) Limit	PM_{10} (lb/hr) Limit	VOC (tons per 12 month rolling period) [2]	DNR Construction Permit #
207-001	207	0.51	0.51	215	04-A-076-S1
207-002		--	--		--
207-003		2.46	2.46		88-A-003-S4
207-004		2.24	2.24		04-A-078-S1
207-005		1.05	1.05		04-A-079-S1
207-006		1.05	1.05		04-A-080-S1

[2] The combined VOC limit for Treater 201, Treater 202, Treater 203, Treater 204, Treater 206, Treater 207 is 961.6 tons per any rolling 12-month period.

Authority for Requirement: DNR Construction Permits 04-A-076-S1, 88-A-003-S4, 04-A-078-S1, 04-A-079-S1, and 04-A-080-S1

Operational Limits & Requirements

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

NESHAP

The Treaters at this facility are subject to the requirements of 40 CFR, Part 63, Subpart OOOO, "National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles". Compliance with the requirements of this regulation was required by May 30, 2006. An initial notification report was received on April 24, 2002.

Authority for Requirement: 40 CFR 63 Subpart OOOO – Fabric NESHAP
567 IAC 23.1(4)"co"
DNR Construction Permits 04-A-076-S1, 88-A-003-S4, 04-A-078-S1, 04-A-079-S1, and 04-A-080-S1

Operating Limits

Operating limits for this emission unit shall be:

A. Treater 207 shall comply with the applicable requirements of Table 1 to Subpart OOOO (40 CFR Part 63) as an existing coating affected source.

B. Treater 207 shall comply with all applicable requirements of § 63.4292, operating limits, § 63.4293, work practice standards, § 63.4300 and § 63.4301, General Compliance Requirements, § 63.4350 through § 63.4352, and § 63.4360 through § 63.4364.

C. Treater oven 207 shall be heated by natural gas or LPG only. Prior to burning any other fuel in this unit, the permittee shall apply for, and obtain, a new construction permit from the DNR. The maximum heat input for Treater oven 207 – zone 1 is 1.5 MMBtu/hr, zone 2 is 1.5 MMBtu/hr, zone 3 is 1.5 MMBtu/hr, zone 4 is 1.35 MMBtu/hr.

D. The maximum coating capacity of Treater 207 is 25,000 square feet per hour.

Reporting and Recordkeeping:

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

A. The permittee shall maintain daily records on the identification, the amount (pounds) and the VOC content of each coating and solvent (% by weight) used in Treater 207.

B. The permittee shall maintain the following monthly records:
   i. The identification, the VOC content (% by weight) and the amount (pounds) of each coating and solvent used in the Treaters 201, 202, 203, 204, 206, and 207.
   ii. The total monthly VOC emission rate from the following emissions units: Treater 201, Treater 202, Treater 203, Treater 204, Treater 206, and Treater 207. The permittee shall maintain monthly emissions information for each of the emissions units.
   The monthly VOC emissions from Treater 201, Treater 202, Treater 203, Treater 204, Treater 206, and Treater 207 shall be determined by the following equations:
   $Total_{voc} = \sum E_{voci}$
   Where,
   $Total_{voc}$ = total monthly actual VOC emissions from Treater 201, Treater 202, Treater 203, Treater 204, Treater 206 and Treater 207
   E_{voci} = monthly actual VOC emissions from each Treater, determined by the following:
   $E_{VOC} = (\sum (PU_i \text{ x } VOC_i)) \text{ x } CE \text{ x } (1 – DE) \text{ x } 1/2000$
   Where,
   E_{VOC} = tons of VOC emitted from a Treater
   PU_i = pounds of an individual coating or solvent used that month
   VOC_I = VOC content of an individual coating or solvent (% by weight)
   CE* = capture efficiency (% of VOC captured and vented to the thermal oxidizer); CE is equal to 1 if the line and oven are equipped with a permanent total enclosure
   DE* = destruction efficiency of control device determined by the most recent stack test that demonstrated compliance;
   * Not used if the Treater is not vented to an air pollution control device.
   iii. The rolling, 12-month total of the VOC emission rate from Treater 201, Treater 202, Treater 203, Treater 204, Treater 206 and Treater 207 (tons).

C. The permittee shall maintain all records as required by § 63.4312.

D. The permittee shall submit all notifications and reports required by §63.4310 and § 63.4311.

E. The permittee shall submit deviation reports that identify all exceedances of the rolling 12-month combined emission limitation for VOC for Treater 201, Treater 202, Treater 203, Treater 204, Treater 206 and Treater 207. The report shall be submitted no later than 30 days from the end of the month in which the exceedance had occurred.

F. The permittee shall submit deviation reports that identify all exceedances of the rolling 12-month combined emission limitation for VOC for treater 201, treater 202, treater 203, treater

204, treater 206 and treater 207. The report shall be submitted no later than 30 days from the end of the month in which the exceedance had occurred.

Authority for Requirement: DNR Construction Permits 04-A-076-S1, 88-A-003-S4, 04-A-078-S1, 04-A-079-S1, and 04-A-080-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table 3			Stack Characteristics				
Emission Point Number	Emission Unit Number	Construction Permit #	Height (feet)	Discharge Style	Opening Diameter (inches)	Exhaust Temp. (ºF)	Exhaust Flow rate (scfm)
207-001	207	04-A-076-S1	50	Vertical, unobstructed	18	300	4309
207-002		--	50	Vertical, unobstructed	18	300	4309
207-003		88-A-003-S4	70	Vertical, unobstructed	18	300	4309
207-004		04-A-078-S1	70	Vertical, unobstructed	18	300	4309
207-005		04-A-079-S1	60	Vertical, unobstructed	27	300	4309
207-006		04-A-080-S1	60	Vertical, unobstructed	20	300	4309

Authority for Requirement: DNR Construction Permits 04-A-076-S1, 88-A-003-S4, 04-A-078-S1, 04-A-079-S1, and 04-A-080-S1

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 280-001

Associated Equipment

Associated Emission Unit ID Numbers: 208 and 207
Emissions Control Equipment ID Number: CE-280
Emissions Control Equipment Description: ABB Thermal Oxidizer

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Emission Unit vented through this Emission Point: 208
Emission Unit Description: Treater 208
Raw Material/Fuel: Compounded Resin Coat of Web Material, Natural Gas, Propane (back-up)
Rated Capacity: 25,000 sq.ft./hr, Treater 208 Oven = 4.2 MMBtu/hr, CE-280 = 11.6 MMBtu/hr

Emission Unit vented through this Emission Point: 207
Emission Unit Description: Treater 207 Zones 1 & 2
Raw Material/Fuel: Compounded Resin Coat of Web Material, Natural Gas, Propane (back-up)
Rated Capacity: 25,000 sq.ft./hr, 1.5 MMBtu/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40% [(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 Permit 04-A-081

Pollutant: PM_{10}
Emission Limit(s): 0.3 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-081

Pollutant: Particulate Matter
Emission Limit(s): 0.1gr/dscf, 0.3 lb/hr
Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permit 04-A-081

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)
DNR Construction Permit 04-A-081

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 39 tons per 12-month rolling total [(2) (3)]
[(2)] The combined VOC limit for Treater 201, Treater 202, Treater 203, Treater 204, Treater 206, Treater 207 is 961.6 tons per any rolling 12-month period.
[(3)] Treater 208 and the treater oven shall be equipped with a permanent total enclosure. Captured VOC emissions shall be reduced by at least 97% by the thermal oxidizer.
Authority for Requirement: 567 IAC 23.1(2)"iii"
DNR Construction Permit 04-A-081

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

NSPS

Treater 208 and the treater oven are subject to the requirements of 40 CFR, Part 60, Subpart VVV, "Standards of Performance for Polymeric Coating of Supporting Substrates Facilities". The equipment subject to this standard is the coating applicator, any flashoff areas, and drying ovens located between a substrate unwind station and a rewind station that coats a continuous web to produce a substrate with a polymeric coating. Compliance with the requirements of this regulation is required by not later than 60 days after achieving maximum production or 180 days after initial startup, whichever date comes first. Coating mix preparation equipment associated with treater 208 is also subject to the requirements of the subpart.
Authority for Requirement: 40 CFR 60 Subpart VVV
567 IAC 23.1(2)"bv"

NESHAP

The treaters at this facility are subject to the requirements of 40 CFR, Part 63, Subpart OOOO, "National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles." Compliance with the requirements of this regulation was required by May 30, 2006. An initial notification report was received on April 24, 2002.
Authority for Requirement: 40 CFR 63 Subpart OOOO – Fabric NESHAP
567 IAC 23.1(4)"co"

Operating Limits
Operating limits for this emission unit shall be:

A. Treater 208 is a new emissions unit. It replaces existing treater 208 which has been shutdown and removed from the facility.

B. The permittee shall install, operate, and maintain a total enclosure around the treater 208 coating operation and treater oven and vent the captured VOC and HAP emissions from the total enclosure to a thermal oxidizer that reduces VOC and organic HAP emissions by at least 97% by weight. This efficiency is more stringent than the required efficiency of 95% from § 60.742.

C. The permittee shall vent VOC and organic HAP emissions from the zones 1 and 2 of treater 207 oven (formerly EP 207-001) to a thermal oxidizer that reduces VOC emissions by at least 97% by weight.

D. For treater 208, the permittee shall comply with the applicable requirements of § 60.743(b), "Compliance Provisions", including:
   i. Demonstrate that a permanent total enclosure has been installed. The total enclosure shall meet all the criteria in Method 204 of appendix M to 40 CFR Part 51. All exhaust gases from the enclosure shall be directed to the thermal oxidizer.

E. For the coating mix preparation equipment used for treater 208, the permittee shall comply with the applicable requirements of § 60.743(c), "Compliance Provisions", including:
   i. The covers for the coating mix equipment shall meet the requirements of § 60.743(c)(1) and (2) whenever preparation of coating is taking place within the mix equipment.

   ii. The mixing equipment shall be vented to the thermal oxidizer while preparation of the coating is taking place.

F. The average combustion temperature within the thermal oxidizer, for any three hour block of time when treater 208 is in operation, shall not be more than 28 degrees Celsius (82 degrees Fahrenheit) below the average temperature during the most recent stack test that demonstrated that the emissions unit was in compliance.

G. Treater 207 and treater 208 shall comply with the applicable requirements of Table 1 to Subpart OOOO as existing coating affected sources.

H. Treater 207 and treater 208 shall comply with all applicable requirements of §63.4292, operating limits, § 63.4293, work practice standards, § 63.4300 and § 63.4301, General Compliance Requirements, § 63.4350 through § 63.4352, and §63.4360 through § 64.4364.

I. Treater oven 208, treater oven 207 and the thermal oxidizer shall be heated by natural gas or LPG only. Prior to burning any other fuel in this unit, the permittee shall apply for, and obtain, a new construction permit from the DNR. The maximum heat input for treater oven 208 is 4.2 MMBTU/hr. The maximum heat input for the thermal oxidizer is 11.6 MMBTU/hr.

J. The maximum coating capacity of treater 208 is 25,000 square feet per hour.

K. The maximum coating capacity of treater 207 is 25,000 square feet per hour.

Reporting and Recordkeeping:

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

A. In accordance with §60.744(a), the permittee shall install all monitoring devices required by the NSPS prior to the initial compliance stack test in locations where representative values of the monitored values will be obtained.

B. In accordance with §60.744(e), the permittee shall install, calibrate, maintain, and operate, according to the manufacturer's specifications, a monitoring device that continuously indicates and records the combustion temperature of the thermal oxidizer. The monitoring device shall have an accuracy within +/- 1 percent of the temperature being measured in Celsius (or Fahrenheit).

C. In accordance with §60.744(h), the permittee shall follow the procedures described in §60.744(g) to establish a monitoring system for the permanent total enclosure on treater 208.

D. In accordance with §60.744(i), the permittee shall record time periods of coating operations on treater 208 when the thermal oxidizer is malfunctioning or not in use.

E. Treater 207 and treater 208 shall comply with all applicable requirements of §63.4363 and §63.4364.

F. The permittee shall maintain daily records on the identification, the amount (pounds) and the VOC content of each coating and solvent (% by weight) used in treater 207 and 208.

G. The permittee shall maintain the following monthly records:

   i. The identification, the VOC content (% by weight) and the amount (pounds) of each coating and solvent used in the treaters 201, 202, 203, 204, 206, 207 and 208.

   ii. The monthly VOC emission rate from treater 208 (tons). The monthly VOC emissions from treater 208 shall be determined by the following equation:

   $E_{VOC} = (\sum (PU_i \times VOC_i)) \times CE \times (1 - DE) \times 1/2000$

   Where,

   E_{VOC} = tons of VOC emitted from treater 208

   PU_i = pounds of an individual coating or solvent used that month in treater 208

   VOC_i = VOC content of an individual coating or solvent (% by weight) used in treater 208

   CE = capture efficiency (% of VOC captured and vented to the thermal oxidizer); CE is equal to 1 if the line and oven are equipped with a permanent total enclosure

   DE = destruction efficiency of the thermal oxidizer determined by the most recent stack test that demonstrated compliance

   iii. The rolling, 12-month total of the VOC emission rate from treater 208 (tons).

iv. The monthly VOC emission rate from treater 207 (tons). The monthly VOC emissions from treater 207 shall be determined by the following equation:

$E_{VOC} = (\sum (PU_i \text{ x } VOC_i)) \text{ x } CE \text{ x } (1 – DE) \text{ x } 1/2000$

Where,

E_{VOC} = tons of VOC emitted from treater 207

PU_i = pounds of an individual coating or solvent used that month in treater 207

VOC_i = VOC content of an individual coating (% by weight) used in treater 207

CE = capture efficiency (% of VOC captured and vented to the thermal oxidizer); CE is equal to 1 if the line and oven are equipped with a permanent total enclosure

DE = destruction efficiency of the thermal oxidizer determined by the most recent stack test that demonstrated compliance;

v. The rolling, 12-month total of the VOC emission rate from treater 207 (tons).

vi. The total monthly VOC emission rate from the following emissions units: treater 201, treater 202, treater 203, treater 204, treater 206, and treater 207. The permittee shall maintain monthly emissions information for each of the emissions units.

The monthly VOC emissions from treater 201, treater 202, treater 203, treater 204, treater 206, and treater 207 shall be determined by the following equations:

$Total_{voc} = \sum E_{voci}$

Where,

$Total_{voc}$ = total monthly actual VOC emissions from treater 201, treater 202, treater 203, treater 204, treater 206 and treater 207

E_{voci} = monthly actual VOC emissions from each treater, determined by the following:

$E_{VOC} = (\sum (PU_i \text{ x } VOC_i)) \text{ x } CE \text{ x } (1 – DE) \text{ x } 1/2000$

Where,

E_{VOC} = tons of VOC emitted from a treater

PU_i = pounds of an individual coating or solvent used that month

VOC_i = VOC content of an individual coating or solvent (% by weight)

CE* = capture efficiency (% of VOC captured and vented to the thermal oxidizer); CE is equal to 1 if the line and oven are equipped with a permanent total enclosure

DE* = destruction efficiency of control device determined by the most recent stack test that demonstrated compliance;

* Not used if the treater is not vented to an air pollution control device.

vii. The rolling, 12-month total of the VOC emission rate from treater 201, treater 202, treater 203, treater 204, treater 206 and treater 207 (tons).

H. In accordance with §60.747(d)(4) and (d)(6), the permittee shall maintain records and submit quarterly reports to the DNR documenting the following:

i. All 3-hour blocks of time when treater 208 was in operation during which the average combustion temperature of the thermal oxidizer was more than 28 degrees Celsius (82 degrees F) below the average combustion temperature of the oxidizer during the most recent stack test that demonstrated compliance.

ii. All 3-hour blocks of time when treater 208 was in operation during which the average total enclosure monitor readings vary by 5 percent or more from the average value measured during the most recent stack test that demonstrated compliance.

These reports shall be submitted no later than 30 days from the end of each calendar quarter. The first quarter shall cover January 1 to March 31. The second quarter shall cover April 1 to June 30. The third quarter shall cover July 1 to September 30. The fourth quarter shall cover October 1 to December 31.

If no deviations occurred during a calendar quarter, no report is required to be submitted. However, in accordance with § 60.747(d)(7), the permittee is required to submit a semiannual statement clarifying this fact.

I. In accordance with §60.747(f) the permittee shall submit quarterly reports to the DNR for:
   i. all periods during actual mixing or coating operations on treater 208 when a required monitoring device was malfunctioning or not operating; and
   ii. all periods during actual mixing or coating operations on treater 208 when the thermal oxidizer was malfunctioning or not operating.

   These reports shall be submitted no later than 30 days from the end of each calendar quarter. The first quarter shall cover January 1 to March 31. The second quarter shall cover April 1 to June 30. The third quarter shall cover July 1 to September 30. The fourth quarter shall cover October 1 to December 31.

   If no deviations occurred during a calendar quarter, no report is required to be submitted. However, in accordance with § 60.747(d)(7), the permittee is required to submit a semiannual statement clarifying this fact.

J. The permittee shall maintain all records as required by § 63.4312.

K. The permittee shall submit all notifications and reports required by §63.4310 and § 63.4311.

L. The permittee shall submit deviation reports that identify all exceedances of the rolling 12-month emission limitation for VOC for treater 208. The report shall be submitted no later than 30 days from the end of the month in which the exceedance had occurred.

M. The permittee shall submit deviation reports that identify all exceedances of the rolling 12-month emission limitation for VOC for treater 207. The report shall be submitted no later than 30 days from the end of the month in which the exceedance had occurred.

N. The permittee shall submit deviation reports that identify all exceedances of the rolling 12-month combined emission limitation for VOC for treater 201, treater 202, treater 203, treater 204, treater 206 and treater 207. The report shall be submitted no later than 30 days from the end of the month in which the exceedance had occurred.

Authority for Requirement: DNR Construction Permit 04-A-081

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 40
Stack Opening, (inches, dia.): 36
Exhaust Flow Rate (scfm): 20,800
Exhaust Temperature (°F): 650-850
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 04-A-081

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

Monitoring Requirements

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

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

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

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

See CAM Plan in Appendix A

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 210-001

Associated Equipment

Associated Emission Unit ID Numbers: 210

Emission Unit vented through this Emission Point: 210
Emission Unit Description: West End of Treaters Room Vent – Fugitive Clean-up Solvent Emissions from treaters 202, 203, 204, 206, 207, and 208
Raw Material/Fuel: Compounded Resin Coat of Web Material, Natural Gas, Propane (back-up)
Rated Capacity: Unknown

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

No emission limits at this time.

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

NESHAP

The clean-up solvent equipment at this facility is subject to the requirements of 40 CFR, Part 63, Subpart OOOO, "National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles." Compliance with the requirements of this regulation was required by May 30, 2006. (*40 CFR 63.4282(b)(3-4)*)

Authority for Requirement: 40 CFR 63 Subpart OOOO – Fabric NESHAP
567 IAC 23.1(4)"co"

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: Laminate Presses (see Table 1)

Associated Equipment

Table 1

Emission Point Number	Emission Unit Numbers	Emission Unit Description	Raw Material	Rated Capacity
301-001	301	Laminate Press	B-Stage Laminate	N/A
302-001	302	Laminate Press	B-Stage Laminate	N/A
303-001	303	Laminate Press	B-Stage Laminate	N/A
304-001	304	Laminate Press	B-Stage Laminate	N/A
305-001	305	Laminate Press	B-Stage Laminate	N/A
306-001	306	Laminate Press	B-Stage Laminate	N/A
307-001	307	Laminate Press	B-Stage Laminate	N/A
308-001	308	Laminate Press	B-Stage Laminate	N/A
309-001	309	Laminate Press	B-Stage Laminate	N/A
310-001	310	Laminate Press	B-Stage Laminate	N/A

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

No applicable limits at this time

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

NESHAP

The presses at this facility are subject to the requirements of 40 CFR, Part 63, Subpart OOOO, "National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles". Compliance with the requirements of this regulation was required by May 30, 2006. (*40 CFR 63.4282(b)(1)*)

Authority for Requirement: 40 CFR 63 Subpart OOOO – Fabric NESHAP
567 IAC 23.1(4)"co"

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: 404-001

Associated Equipment

Associated Emission Unit ID Numbers: see Table 1
Emissions Control Equipment ID Number: CE 404A
Emissions Control Equipment Description: Torit Model DFT3-24

Table 1

Emission Point Number	Emission Unit Numbers	Emission Unit Description	Raw Material	Rated Capacity
404-001	404	Trim Saw	Laminate	1800 lb/hr
	405	Saw	Laminate	2400 lb/hr
	418	Sander	Laminate	1200 sq.ft./hr
	588	Lathe	Laminate	0.187 in/rev & 0.39 lb/hr
	601	Sander	Laminate	1100 sq.ft./hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40% [(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 97-A-601-S3

Pollutant: PM_{10}
Emission Limit(s): 2.04 lb/hr
Authority for Requirement: DNR Construction Permit 97-A-601-S3

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf, 2.04 lb/hr
Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permit 97-A-601-S3

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

Operating Limits
Operating limits for this emission unit shall be:
Operating limits for this emission unit shall be:
A. The control equipment shall be operated and maintained in accordance with the manufacturer's specifications and directions.

Authority for Requirement: DNR Construction Permit 97-A-601-S3

Reporting and Recordkeeping:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. These records shall show the following:
A. The permittee shall maintain records on the maintenance work done on the control equipment.

Authority for Requirement: DNR Construction Permit 97-A-601-S3

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 24
Stack Opening, (inches, dia.): 13.5 x 20.4
Exhaust Flow Rate (scfm): 6,845
Exhaust Temperature (°F): 96
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 97-A-601-S3

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

The following equipment may be connected to this emissions point:

Equipment	Maximum Capacity
Saw (EU 404) – Eceles & Cain, model 42-XHDD-12	1800 lbs/hr
Saw (EU 405) – Reed, model 191	2400 lbs/hr
Sander (EU 418) – Curtin-Herbert, model Micro	1200 sq. ft./hr
Lathe (EU 588) – Lodge & Shipley, model 20"/30"	0.187 in/rev & 0.39 lb/hr
Sander (EU 601) – Dayton, model 6Y001A	1100 sq. ft/hr

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** ☐

See CAM Plan in Appendix A

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 496-001

Associated Equipment

Associated Emission Unit ID Numbers: 496

Emission Unit vented through this Emission Point: 496
Emission Unit Description: Post-Bake Oven
Raw Material/Fuel: Laminate, Natural Gas, Propane (back-up)
Rated Capacity: 0.75 MMBtu/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 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 95-A-344-S1

Pollutant: PM_{10}
Emission Limit(s): 0.07 lb/hr
Authority for Requirement: DNR Construction Permit 95-A-344-S1

Pollutant: PM
Emission Limit(s): 0.1gr/dscf, 0.07 lb/hr
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s): 0.08 lb/hr
Authority for Requirement: DNR Construction Permit 95-A-344-S1

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

NESHAP

The ovens at this facility are subject to the requirements of 40 CFR, Part 63, Subpart OOOO, "National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles." Compliance with the requirements of this regulation was required by May 30, 2006. (*40 CFR 63.4283)*

Authority for Requirement: 40 CFR 63 Subpart OOOO – Fabric NESHAP
567 IAC 23.1(4)"co"

Operating Limits
Operating limits for this emission unit shall be:
The Post-Bake Oven (EU496) shall only combust natural gas or propane.

Authority for Requirement: DNR Construction Permit 95-A-344-S1

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 11
Stack Opening, (inches, dia.): 5 x 22
Exhaust Flow Rate (scfm): 800
Exhaust Temperature (°F): 475
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 95-A-344-S1

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 495-001, 497-001, 498-001, 499-001

Associated Equipment

Associated Emission Unit ID Numbers: 495, 497, 498, 499

Emission Unit vented through this Emission Point: 495
Emission Unit Description: Electric Post-Bake Oven
Raw Material/Fuel: Laminate
Rated Capacity:

Emission Unit vented through this Emission Point: 497
Emission Unit Description: Electric Post-Bake Oven
Raw Material/Fuel: Laminate
Rated Capacity:

Emission Unit vented through this Emission Point: 498
Emission Unit Description: Post-Bake Oven
Raw Material/Fuel: Laminate, Natural Gas or Propane (back-up)
Rated Capacity: 0.75 MMBtu/hr

Emission Unit vented through this Emission Point: 499
Emission Unit Description: Electric Post-Bake Oven
Raw Material/Fuel: Laminate
Rated Capacity:

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

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

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

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)

Operational Limits & Requirements

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

NESHAP

The ovens at this facility are subject to the requirements of 40 CFR, Part 63, Subpart OOOO, "National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles." Compliance with the requirements of this regulation was required by May 30, 2006. (*40 CFR 63.4282(b)*)

Authority for Requirement: 40 CFR 63 Subpart OOOO – Fabric NESHAP
567 IAC 23.1(4)"co"

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: 502-001

Associated Equipment

Associated Emission Unit ID Numbers: 502

Emission Unit vented through this Emission Point: 502
Emission Unit Description: Tube Roller
Rated Capacity: 19 Linear inches/minute

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.

There are currently no emission point specific emission limits. See facility wide conditions.

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

There are no operating limits at this time.

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): Inside Venting
Stack Opening, (inches, dia.): Inside Venting
Exhaust Flow Rate (scfm): Inside Venting
Exhaust Temperature (°F): Inside Venting
Discharge Style: Inside Venting
Authority for Requirement: DNR Construction Permit 16-A-423

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: Tubing Mandrel Ovens (see Table 1)

Associated Equipment

Table 1

Emission Point Number	Emission Unit Numbers	Emission Unit Description	Raw Material	Rated Capacity
530-001	530	Tubing Mandrel Oven	B-Stage Laminate, Natural Gas or Propane (back-up)	1.5 MMBtu/hr
531-001	531	Tubing Mandrel Oven		0.55 MMBtu/hr
532-001	532	Tubing Mandrel Oven*		686 lbs/hr and .8 MMBtu/hr
533-001	533	Tubing Mandrel Oven		0.75 MMBtu/hr
534-001	534	Tubing Mandrel Oven		0.4 MMBtu/hr
535-001	535	Tubing Mandrel Oven*		686 lbs/hr and .8 MMBtu/hr
538-001	538	Tubing Mandrel Oven	N/A (Electric Oven)	N/A

* Described as "Rolled Tube Heat Treat Oven" in Construction Permits 13-A-067-S1 & 14-A-254

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)

(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 03-A-1358, 03-A-1359, and 03-A-1360

Emission Limit(s): 40% (1)

(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).

Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permits 06-A-693

Emission Limit(s): 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 Permits 13-A-067-S1, 14-A-254

Pollutant: PM
Emission Limit(s): 0.1gr/dscf
Authority for Requirement: 567 IAC 23.3(2) "a"
DNR Construction Permits 06-A-693, 13-A-067-S1, 14-A-254

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)
DNR Construction Permits 03-A-1358, 03-A-1359, 03-A-1360, 06-A-693, 13-A-067-S1, 14-A-254

Table 2

Emission Point Number	Emission Unit Number	PM (lb/hr) Limit	PM_{10} (lb/hr) Limit	VOC (tons per 12 month rolling period) [(2)]	DNR Construction Permit #
530-001	530	0.014	0.014	0.036	03-A-1358
531-001	531	0.003	0.003	0.008	03-A-1359
532-001	532	--	--	--	13-A-067-S1
533-001	533	0.007	0.007	0.018	03-A-1360
534-001	534	--	--	--	06-A-693
535-001	535	--	--	--	14-A-254
538-001	538	--	--	--	--

[(2)] Standard is a 12-month rolling total.

Authority for Requirement: DNR Construction Permits 03-A-1358, 03-A-1359, 03-A-1360, 06-A-693, 13-A-067-S1, 14-A-254

Operational Limits & Requirements

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

NESHAP

The tubing mandrel ovens, listed above, at this facility are subject to the requirements of 40 CFR, Part 63, Subpart OOOO, "National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles". Compliance with the requirements of this regulation was required by May 30, 2006. (*40 CFR 63.4282(b)(1)*)

Authority for Requirement: 40 CFR 63 Subpart OOOO – Fabric NESHAP
567 IAC 23.1(4)"co"

Operating Limits

Operating limits for this emission unit shall be:

A. This emissions unit shall be heated by natural gas or propane only.

Authority for Requirement: DNR Construction Permits 03-A-1358, 03-A-1359, 03-A-1360, 06-A-693, 13-A-067-S1, 14-A-254

B. The maximum heat input is: 1.5 MMBtu/hr for EP 530-001; 0.35 MMBtu/hr for EP 531-001; 0.75 MMBtu/hr for EP 533-001.

Authority for Requirement: DNR Construction Permits 03-A-1358, 03-A-1359, and 03-A-1360

C. Prior to burning any other fuel in this unit, the permittee shall apply for, and obtain, a new construction permit from the Iowa DNR.

Authority for Requirement: DNR Construction Permits 13-A-067-S1

D. For permitting purposes, all non-combustion HAP and VOC emissions from this unit will be assumed to be emitted at the treater oven.

Authority for Requirement: Iowa DNR Construction Permits 14-A-254

Reporting 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. These records shall show the following:

A. Maintain a record of the fuel used (i.e. a fuel bill).

Authority for Requirement: DNR Construction Permits 06-A-693

B. For the purposes of maintaining project 14-082 as a minor project for Prevention of Significant Deterioration (PSD), the owner or operator shall have the following monitoring conditions for a period ten (10) years from the start-up date of EU535:
   a. Record annually the sum of the actual VOC emissions from the coating operations at the plant.
   b. Record annually the ton per year value of the actual emissions minus the baseline actual emissions for VOC. The baseline actual emissions are 604.46 tons per year.
   c. The owner or operator shall submit a report to the department if the annual emissions, in tons per year, exceed the baseline actual emissions by an amount greater than 39.4 tons.

Authority for Requirement: Iowa DNR Construction Permits 14-A-254

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table 3			Stack Characteristics				
Emission Point Number	Emission Unit Number	Construction Permit #	Height (feet)	Discharge Style	Opening Diameter (inches)	Exhaust Temp. (°F)	Exhaust Flow rate (scfm)
530-001	530	03-A-1358	15	Horizontal	8	425	538
531-001	531	03-A-1359	15	Horizontal	7	400	278
532-001	532	13-A-067-S1	23.67	Vertical unobstructed	13	500	2,500
533-001	533	03-A-1360	15	Horizontal	7	400	270
534-001	534	06-A-693	19	Vertical, obstructed	8	400	250
535-001	535	14-A-254	23.67	Vertical unobstructed	13	500	2,500
538-001	538	--	--	--	--	--	--

Authority for Requirement: DNR Construction Permits 03-A-1358, 03-A-1359, 13-A-067-S1 03-A-1360, 06-A-693, 14-A-254

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: Rolled Tube Heat Treat Ovens (see Table 1)

Associated Equipment

Table 1

Emission Point Number	Emission Unit Numbers	Emission Unit Description	Raw Material	Rated Capacity
536-001	536	Rolled Tube Heat Treat Oven	N/A (Electric Oven)	N/A
550-001	550	Rolled Tube Hot Oil Heat Treat Bath	Oil	250 gallons

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

No applicable limits at this time

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

NESHAP

The heat treat ovens at this facility are subject to the requirements of 40 CFR, Part 63, Subpart OOOO, "National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles". Compliance with the requirements of this regulation was required by May 30, 2006. (*40 CFR 63.4282(b)(1)*)

Authority for Requirement: 40 CFR 63 Subpart OOOO – Fabric NESHAP
567 IAC 23.1(4)"co"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Table III-29			Stack Characteristics				
Emission Point Number	Emission Unit Number	Construction Permit #	Height (feet)	Discharge Style	Opening Diameter (inches)	Exhaust Temp. (°F)	Exhaust Flow rate (scfm)
536-001	536	04-A-690	15	Horizontal	6	500	248
550-001	550	04-A-691	31.5	Vertical, unobstructed	18	70	3900

Authority for Requirement: DNR Construction Permits 04-A-690 and 04-A-691

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 674-001 (Internally Vented)

Associated Equipment

Associated Emission Unit ID Numbers: EU 589

Emission Unit vented through this Emission Point: EU 589
Emission Unit Description: Band Saw
Control Equipment ID Number: CE 674
Control Equipment Description: US Turbine Dust Collector
Raw Material/Fuel: Laminate
Rated Capacity: 188 Inches/Minute

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 Limits: 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 596-001

Associated Equipment

Associated Emission Unit ID Numbers: EU 406
Emissions Control Equipment ID Number: CE 596
Emissions Control Equipment Description: Dust Collector

Emission Unit vented through this Emission Point: EU 406
Emission Unit Description: Saw
Raw Material/Fuel: Laminate
Rated Capacity: 63 Inches/Minute

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)]
[(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 04-A-689-S1

Pollutant: PM_{10}
Emission Limit(s): 1.11 lb/hr
Authority for Requirement: DNR Construction Permit 04-A-689-S1

Pollutant: Particulate Matter
Emission Limit(s): 0.1gr/dscf, 1.11 lb/hr
Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permit 04-A-689-S1

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

NESHAP

This facility is subject to 40 CFR Part 63, Subpart OOOO, National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles. This unit is not affected sources as defined in this rule at §63.4282.

Operating Limits
Operating limits for this emission unit shall be:
A. The control equipment shall be operated and maintained in accordance with the manufacturer's specifications and directions.

Authority for Requirement: DNR Construction Permit 04-A-689-S1

Reporting and Recordkeeping:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. These records shall show the following:
A. The permittee shall maintain records on the maintenance work done on the control equipment.

Authority for Requirement: DNR Construction Permit 04-A-689-S1

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 31
Stack Opening, (inches, dia.): 33
Exhaust Flow Rate (scfm): 18,000
Exhaust Temperature (°F): 70
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 04-A-689-S1

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

Monitoring Requirements

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

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

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

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

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

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 597-001

Associated Equipment

Associated Emission Unit ID Numbers: see Table 1
Emissions Control Equipment ID Number: DC (Dust Collector) 597
Emissions Control Equipment Description: Donaldson DF T4-46

Table 1

Emission Point Number	Emission Unit Numbers	Emission Unit Description	Raw Material	Rated Capacity
597-001	206	Edge trimmer	Laminate dust from slit edge from B-stage laminate	100 sq.ft./hr
	207	Edge trimmer		
	208	Edge trimmer		

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)]
[(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 05-A-960

Pollutant: PM_{10}
Emission Limit(s): 0.34 lb/hr
Authority for Requirement: DNR Construction Permit 05-A-960

Pollutant: Particulate Matter
Emission Limit(s): 0.1gr/dscf, 0.34 lb/hr
Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permit 05-A-960

Operational Limits & Requirements

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

Operating Limits

Operating limits for this emission unit shall be:

A. The control equipment shall be operated and maintained per the manufacturer's instructions and specifications.

Authority for Requirement: DNR Construction Permit 05-A-960

Reporting and Recordkeeping:

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

A. Maintain a record of the maintenance and repair to the control equipment.

Authority for Requirement: DNR Construction Permit 05-A-960

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 10.5
Stack Opening, (inches, dia.): 9
Exhaust Flow Rate (scfm): 2,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical, without rain cap or with unobstructing rain cap
Authority for Requirement: DNR Construction Permit 05-A-960

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 598-001

Associated Equipment

Associated Emission Unit ID Numbers: see Table 1
Emissions Control Equipment ID Number: DC 598
Emissions Control Equipment Description: 598 Baghouse

Table 1

Emission Point Number	Emission Unit Numbers	Emission Unit Description	Raw Material	Rated Capacity
598-001	206	Edge trimmer	Laminate dust from slit edge from B-stage laminate	100 sq.ft./hr
	207	Edge trimmer		
	208	Edge trimmer		

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)]
[(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 05-A-961

Pollutant: PM_{10}
Emission Limit(s): 0.34 lb/hr
Authority for Requirement: DNR Construction Permit 05-A-961

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf, 0.34 lb/hr
Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permit 05-A-961

Operational Limits & Requirements

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

Operating Limits

Operating limits for this emission unit shall be:

A. The control equipment shall be operated and maintained per the manufacturer's instructions and specifications.

Authority for Requirement: DNR Construction Permit 05-A-961

Reporting and Recordkeeping:

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

A. Maintain a record of the maintenance and repair to the control equipment.

Authority for Requirement: DNR Construction Permit 05-A-961

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 10.5
Stack Opening, (inches, dia.): 9
Exhaust Flow Rate (scfm): 2,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical, without rain cap or with unobstructing rain cap
Authority for Requirement: DNR Construction Permit 05-A-961

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

Monitoring Requirements

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 950-001

Associated Equipment

Associated Emission Unit ID Numbers: Boiler 950

Emission Unit vented through this Emission Point: Boiler 950
Emission Unit Description: Boiler
Raw Material/Fuel: Natural Gas, Propane (back-up)
Rated Capacity: 63 MMBtu/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40%
Authority for Requirement: 567 IAC 23.3(2)"d"
DNR Construction Permits 73-A-100-S2

Pollutant: Particulate Matter
Emission Limit(s): 0.6 lb/MMBtu
Authority for Requirement: DNR Construction Permits 73-A-100-S2

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)

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

NESHAP

The boiler at this facility is subject to the requirements of 40 CFR, Part 63, Subpart DDDDD, "National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters".
Authority for Requirement: 40 CFR 63, Subpart DDDDD

Operating Limits
Operating limits for this emission unit shall be:
A. This emissions unit is limited to natural gas (primary fuel) or propane (secondary fuel) only.

Authority for Requirement: DNR Construction Permit 73-A-100-S2

Reporting and Recordkeeping:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.
A. Records of fuel(s) consumed (i.e. a fuel bill).

Authority for Requirement: DNR Construction Permits 73-A-100-S2

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 27.7
Stack Opening, (inches, dia.): 42
Exhaust Flow Rate (scfm): 15,469
Exhaust Temperature (°F): 460
Discharge Style: Vertical, unobstructed

Authority for Requirement: DNR Construction Permits 73-A-100-S2

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 951-001, 952-001

Associated Equipment

Associated Emission Unit ID Numbers: 951, 952

Emission Unit vented through this Emission Point: Propane Vaporizers 951, 952
Emission Unit Description: Propane Vaporizers
Raw Material/Fuel: Propane
Rated Capacity: 1.75 MMBtu/hr (951) & 0.56 MMBtu/hr (952)

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

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

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

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)

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

NESHAP

The propane vaporizers (process heaters) at this facility are subject to the requirements of 40 CFR, Part 63, Subpart DDDDD, "National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters".
Authority for Requirement: 40 CFR 63, Subpart DDDDD

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: 967-001

Associated Equipment

Associated Emission Unit ID Numbers: 10 HP Chopper
Emissions Control Equipment ID Number: DC 967
Emissions Control Equipment Description: Dust Collector

Emission Unit vented through this Emission Point: 10 HP Chopper
Emission Unit Description: Chops B-stage edge trim to size
Raw Material/Fuel: C-stage laminate material
Rated Capacity: 100 sq.ft./hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

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

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

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 969-001

Associated Equipment

Associated Emission Unit ID Numbers: see Table III-33
Emissions Control Equipment ID Number: CE 969
Emissions Control Equipment Description: UOP Fabric Filter, Model BH-180

Table III-33

Emission Point Number	Emission Unit Numbers	Emission Unit Description	Raw Material	Rated Capacity
969-001	402	Saw	Laminate	2400 lb/hr
	403	Saw	Laminate	4650 lb/hr
	420	Sander	Laminate	1500 sq.ft./hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40% [(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 97-A-600-S2

Pollutant: PM_{10}
Emission Limit(s): 2.05 lb/hr
Authority for Requirement: DNR Construction Permit 97-A-600-S2

Pollutant: Particulate Matter
Emission Limit(s): 0.1gr/dscf, 2.05 lb/hr
Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permit 97-A-600-S2

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

Operating Limits
Operating limits for this emission unit shall be:
A. The control equipment shall be operated and maintained in accordance with the manufacturer's specifications and directions.

Authority for Requirement: DNR Construction Permit 97-A-600-S2

Reporting and Recordkeeping:
All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner. These records shall show the following:
A. The permittee shall maintain records on the maintenance work done on the control equipment.

Authority for Requirement: DNR Construction Permit 97-A-600-S2

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 45.5
Stack Opening, (inches, dia.): 27
Exhaust Flow Rate (scfm): 15,920
Exhaust Temperature (°F): 70
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 97-A-600-S2

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

The following equipment may be connected to this emissions point:

Equipment	Maximum Capacity
Saw (EU 402)	2400 lbs/hr
Saw (EU 403)	4650 lbs/hr
Sander (EU 420)	1500 sq. ft./hr

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** ☐

See CAM Plan in Appendix A

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 999-020

Associated Equipment

Associated Emission Unit ID Numbers: 999-020

Emission Unit vented through this Emission Point: 999-020
Emission Unit Description: Solvent Recovery from Batch Still
Raw Material/Fuel: Clean-up solvents
Rated Capacity: 55 gal/8 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.

No emission limits at this time.

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

NESHAP:
The clean-up solvent equipment at this facility is subject to the requirements of 40 CFR, Part 63, Subpart OOOO, "National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles." Compliance with the requirements of this regulation was required by May 30, 2006. (*40 CFR 63.4282(b)(3-4)*)

Authority for Requirement: 40 CFR 63 Subpart OOOO – Fabric NESHAP
567 IAC 23.1(4)"co"

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: 999-030

Associated Equipment

Associated Emission Unit ID Numbers: 999-030

Emission Unit vented through this Emission Point: 999-030
Emission Unit Description: Sub-Slab Depressurization System
Raw Material/Fuel: VOC & HAP (Soil) Vapor
Rated Capacity: 2830.2 scf/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.

No emission limits at this time.

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 999-501

Associated Equipment

Associated Emission Unit ID Numbers: see Table III-34

Applicable Requirements

The following equipment may be connected to this emissions point:
Table III-34

Emission Point Number	Emission Unit Numbers	Emission Unit Description	Raw Material	Rated Capacity
999-501	503	Tube Roller	B-Stage Laminate	3800 sf/hr
	506	Tube Roller	B-Stage Laminate	5000 sf/hr
	508	Tube Roller	B-Stage Laminate	5000 sf/hr
	511	Tube Roller	B-Stage Laminate	5000 sf/hr
	512	Tube Roller	B-Stage Laminate	5000 sf/hr
	562	Wet Tube Grinder	B-Stage Laminate	8 linear fpm
	563	Wet Tube Grinder	B-Stage Laminate	8 linear fpm
	564	Wet Tube Grinder	B-Stage Laminate	8 linear fpm
	569	Wet Tube Grinder	B-Stage Laminate	8 linear fpm

Authority for Requirement: DNR Construction Permit 03-A-1293-S3

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)]
[(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 03-A-1293-S3

Pollutant: PM_{10}
Emission Limit(s): 0.43 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-1293-S3

Pollutant: Particulate Matter
Emission Limit(s): 0.1gr/dscf, 0.43 lb/hr
Authority for Requirement: DNR Construction Permit 03-A-1293-S3

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

NESHAP

This facility is subject to 40 CFR Part 63 Subpart OOOO, National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles. These units are not affected sources as defined in this rule at § 63.4282.

Authority for Requirement: DNR Construction Permit 03-A-1293-S3

Operating Limits:
Operating limits for this emission unit shall be:
A. The tube grinders shall be operated and maintained as wet grinders at all times.

Authority for Requirement: DNR Construction Permit 03-A-1293-S3

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 32.875
Stack Opening, (inches, dia.): 24
Exhaust Flow Rate (scfm): 5580
Exhaust Temperature (°F): 70
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 03-A-1293-S3

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

The following equipment may be connected to this emissions point:

Equipment	Maximum Capacity
Tube Roller (EU 503)	3800 sf/hr
Tube Roller (EU 506)	5000 sf/hr
Tube Roller (EU 512)	5000 sf/hr
Tube Roller (EU 508)	5000 sf/hr
Tube Roller (EU 511)	5000 sf/hr
Wet Tube Grinder (EU 564)	8 lineal ft/min
Wet Tube Grinder (EU 563)	8 lineal ft/min
Wet Tube Grinder (EU 569)	8 lineal ft/min
Wet Tube Grinder (EU 562)	8 lineal ft/min

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: 999-502

Associated Equipment

Associated Emission Unit ID Numbers: see Table 1

Applicable Requirements

The following equipment may be connected to this emissions point:
Table 1

Emission Point Number	Emission Unit Numbers	Emission Unit Description	Raw Material	Rated Capacity
999-502	507	Tube Roller	B-Stage Laminate	5000 sf/hr
	514	Tube Roller	B-Stage Laminate	5000 sf/hr
	515	Tube Roller	B-Stage Laminate	5000 sf/hr
	518	Tube Roller	B-Stage Laminate	5000 sf/hr
	519	Tube Roller	B-Stage Laminate	5000 sf/hr
	520	Tube Roller	B-Stage Laminate	5000 sf/hr

Authority for Requirement: DNR Construction Permit 03-A-1294

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)]
[(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 03-A-1294-S1

Pollutant: Particulate Matter
Emission Limit(s): 0.1gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"
DNR Construction Permit 03-A-1294-S1

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

NESHAP

This facility is subject to 40 CFR Part 63 Subpart OOOO, national Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles. These units are not affected sources as defined in this rule at § 63.4282.

Authority for Requirement: DNR Construction Permit 03-A-1294-S1

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 24.5
Stack Opening, (inches, dia.): 26
Exhaust Flow Rate (scfm): 6000
Exhaust Temperature (°F): 70
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 03-A-1294-S1

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

The following equipment may be connected to this emissions point:

Equipment	Maximum Capacity
Tube Roller (EU 507)	5000 sf/hr
Tube Roller (EU 514)	5000 sf/hr
Tube Roller (EU 515)	5000 sf/hr
Tube Roller (EU 518)	5000 sf/hr
Tube Roller (EU 519)	5000 sf/hr
Tube Roller (EU 520)	5000 sf/hr

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) 281-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). *567 IAC Chapter 131-State Only*

G14. Excess Emissions and Excess Emissions Reporting Requirements

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

2. Excess Emissions Reporting

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

i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.

ii. The estimated quantity of the excess emission.

iii. The time and expected duration of the excess emission.

iv. The cause of the excess emission.

v. The steps being taken to remedy the excess emission.

vi. The steps being taken to limit the excess emission in the interim period.

b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required initial reports to the department

within seven days of the onset of the upset condition, and shall include as a minimum the following:

i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.

ii. The estimated quantity of the excess emission.

iii. The time and duration of the excess emission.

iv. The cause of the excess emission.

v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.

vi. The steps that were taken to limit the excess emission.

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

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

a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;

b. The facility at the time was being properly operated;

c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and

d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice fulfills the requirement of paragraph 22.108(5)"b." – See G15. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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

G15. Permit Deviation Reporting Requirements

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

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

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of

performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)*

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

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

a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.

b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);

c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);

d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B));.

e. The changes comply with all applicable requirements.

f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:

i. A brief description of the change within the permitted facility,

ii. The date on which the change will occur,

iii. Any change in emission as a result of that change,

iv. The pollutants emitted subject to the emissions trade

v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.

vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and

vii. Any permit term or condition no longer applicable as a result of the change. *567 IAC 22.110(1)*

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

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

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

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

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

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

i. Correct typographical errors

ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;

iii. Require more frequent monitoring or reporting by the permittee; or

iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.

b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.

c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

2. Minor Title V Permit Modification.

a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:

i. Do not violate any applicable requirement;

ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;

iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;

iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;

v. Are not modifications under any provision of Title I of the Act; and

vi. Are not required to be processed as significant modification under rule 567 - 22.113(455B).

b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:

i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;

ii. The permittee's suggested draft permit;

iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and

iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V Permit Modification.

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

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

G19. Duty to Obtain Construction Permits

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

G20. Asbestos

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

G21. Open Burning

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

G22. Acid Rain (Title IV) Emissions Allowances

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

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

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

    a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.

    b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.

    c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.

    d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.

2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:

    a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.

    b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.

    c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.

    d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)

    e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.

    f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.

3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.

4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air

conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,

5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

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

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

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

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

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

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

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

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

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

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

permit.

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

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

5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 22.114(3)*

G25. Permit Shield

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

a. Such applicable requirements are included and are specifically identified in the permit; or

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

2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.

3. A permit shield shall not alter or affect the following:

a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;

b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;

d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

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

G27. Property Rights

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

G28. Transferability

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

G29. Disclaimer

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

G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification
The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. If the owner or operator does not provide timely notice to the department, the department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department's request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.
Stack test notifications, reports and correspondence shall be sent to:

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

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.
567 IAC 25.1(7)"a", 567 IAC 25.1(9)

G31. Prevention of Air Pollution Emergency Episodes
The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons.
567 IAC 26.1(1)

G32. Contacts List

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

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

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

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

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

Field Office 1
909 West Main – Suite 4
Manchester, IA 52057
(563) 927-2640

Field Office 2
2300-15th St., SW
Mason City, IA 50401
(641) 424-4073

Field Office 3
1900 N. Grand Ave.
Spencer, IA 51301
(712) 262-4177

Field Office 4
1401 Sunnyside Lane
Atlantic, IA 50022
(712) 243-1934

Field Office 5
7900 Hickman Road, Suite #200
Windsor Heights, IA 50324
(515) 725-0268

Field Office 6
B. 1023 West Madison Street
Washington, IA 52353-1623
(319) 653-2135

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

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

V. Appendix A:

Compliance Assurance Monitoring Plan for Industrial Laminates/Norplex Inc.
Facility located in Postville, Iowa

EP 201—Oxidizer (CE 281)

I. Background

A. Emissions Unit

Description: Treater
Identification: EU201
Facility: Industrial Laminates/Norplex Inc. Postville, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: Permit # 87-A-031-S3 and 04-A-077-S l
Emission Limit or Standard: 33 Tons VOC per rolling 12-month period
Current monitoring requirements: Oxidizer temperature is to be maintained at a minimum of 1165 degrees F while 201 in operation.

C. Control Technology

Thermal Oxidizer

II. Monitoring Approach

A. Indicator

Temperature of Oxidizer

B. Measurement Approach

While Treater 201 is in operation

C. Indicator Level

1165 degrees Fahrenheit

D. QIP (Quality Improvement Plan) Threshold (Optional)

N/A

E. Performance Criteria

Data representativeness: Maintenance at temperature assured tested destruction efficiency

Verification of operational status: Calibration is performed by an independent source

QA/QC practices and criteria: Calibration is performed on a quarterly basis

Monitoring frequency: Continuous while 201 is in operation

Data collection procedure: Chart recorder records temperature on paper chart, continuously. Paper chart is collected every day and stored for potential later data retrieval

Averaging period: Continuous

Compliance Assurance Monitoring Plan for Industrial Laminates/Norplex Inc.
Facility located in Postville, Iowa

EP 280 - Oxidizer (CE 280)

III. Background

A. Emissions Unit

Description: Treater
Identification: EU208, EU 207 Zone 1 and 2, 123-PMT, 123-FMT
Facility: Industrial Laminates/Norplex Inc. Postville, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: Permit # 04-A-081
Emission Limit or Standard: 33 Tons VOC per rolling 12-month period
Current monitoring requirements: The average combustion temperature for any 3 hour block of time when treater 208 is in operation is to be maintained at a minimum of 82 degrees F below the average temperature during the most recent stack test that demonstrated that treater 208 was in compliance. Demonstrate that a permanent total enclosure has been installed by monitoring differential pressure across the enclosure.

C. Control Technology

Thermal Oxidizer and capture system

IV. Monitoring Approach

A. Indicator

Temperature of Oxidizer, Differential Pressure Across Enclosure

B. Measurement Approach

For temperature of oxidizer, while treater 208 oven or treater 207 oven is in operation.
For differential pressure across enclosure, while treater 208 oven is in operation.

C. Indicator Level

Temperature = 1218 deg F
Differential Pressure = 0.0007 in w.c.

D. QIP (Quality Improvement Plan) Threshold (Optional)

N/A

E. Performance Criteria

Data representativeness: Maintenance at temperature assures tested destruction efficiency. Maintenance of differential pressure assures PTE (100% capture).

Verification of operational status: Calibration is performed by an independent source.

QA/QC practices and criteria: Calibration is performed on a yearly basis.

Monitoring frequency: Temperature is recorded every 3 minutes. Differential pressure is recorded constantly.

Data collection procedure: Temperature data is stored in a database that can be reviewed. Differential pressure is stored on a hard drive that be reviewed.

Averaging period: Continuous

Compliance Assurance Monitoring Plan for Industrial Laminates/Norplex Inc.
Facility located in Postville, Iowa

EP 404 - Dust Collector (CE 404A)

V. Background

A. Emissions Unit

Description: Saws and Sanders
Identification: EU404, EU405, EU4 l 8, EU588 and EU60 I
Facility: Industrial Laminates/Norplex Inc. Postville, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: Permit # 97-A-601-S3
Emission Limit or Standard: Opacity: 40%, PM-10: 2.04 lb/hr, PM: 2.04 lb/hr
Current monitoring requirements: Facility maintained operation and maintenance plan required.

C. Control Technology

Fabric filter (baghouse).

VI. Monitoring Approach

A. Indicator

Visible emissions (VE) and inspection and maintenance.

B. Measurement Approach

Maintenance group observes visual emissions. Inspection and maintenance is performed per O&M plan.

C. Indicator Level

Any visible emissions.

D. QIP (Quality Improvement Plan) Threshold (Optional)

N/A

E. Performance Criteria

Data representativeness: Visible emissions could indicate process changes, changes in baghouse efficiency or leaks.

Verification of operational status: Correct operation determined by inspection and maintenance.

QA/QC practices and criteria: N/A

Monitoring frequency: Visible emissions observed once per shift. O&M done per plan.

Data collection procedure: If visible emissions are other than zero (0), notifications are sent internally. Records of maintenance work done are maintained.

Averaging period: N/A

Compliance Assurance Monitoring Plan for Industrial Laminates/Norplex Inc.
Facility located in Postville, Iowa

EP 969 – Dust Collector (CE 969)

VII. Background

A. Emissions Unit

Description: Treater
Identification: EU402, EU403 and EU420
Facility: Industrial Laminates/Norplex Inc. Postville, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: Permit # 97-A-600-S2
Emission Limit or Standard: Opacity: 40%, PM-10: 2.05 lb/hr, PM: 2.05 lb/hr
Current monitoring requirements: Facility maintained operation and maintenance plan required.

C. Control Technology

Fabric filter (baghouse)

VIII. Monitoring Approach

A. Indicator

Visible emissions (VE) and inspection and maintenance

B. Measurement Approach

Maintenance group observes visual emissions. Inspection and maintenance is performed per O&M plan

C. Indicator Level

Any visible emissions

D. QIP (Quality Improvement Plan) Threshold (Optional)

N/A

E. Performance Criteria

Data representativeness: Visible emissions could indicate process changes, changes in baghouse efficiency or leaks

Verification of operational status: Correct operation determined by inspection and maintenance

QA/QC practices and criteria: N/A

Monitoring frequency: Visible emissions observed once per shift. O&M done per plan

Data collection procedure: If visible emissions are other than zero (0), notifications are sent internally. Records of maintenance work done are maintained.

Averaging period: N/A

Portable and Fixed Mixing Tanks List

PORTABLE AND FIXED MIXING TANKS CR = Compounded Resin LCR = Lower Compounding Room UCR = Upper Compounding Room				
	Portable #	Purpose	Volume (Gallons)	Location
1	1A	Epoxy CR	573	UCR or LCR
2	1B	Epoxy CR	573	UCR or LCR
3	1C	Epoxy CR	573	UCR or LCR
4	1D	Epoxy CR	500	UCR or LCR
5	1E	Epoxy CR	500	UCR or LCR
6	1F	Epoxy CR	500	UCR or LCR
7	1G	Epoxy CR	500	UCR or LCR
8	2A	Epoxy CR	573	UCR or LCR
9	2B	Epoxy CR	573	UCR or LCR
10	3	Phenolic & Epoxy CR	376	UCR or LCR
11	4	Epoxy CR	375	UCR or LCR
12	5	Phenolic & Epoxy CR	573	UCR or LCR
13	6	Phenolic & Epoxy CR	400	UCR or LCR
14	7	Phenolic & Epoxy CR	360	UCR or LCR
15	8A	Epoxy CR Epoxy CR	280	UCR or LCR
16	8B	Epoxy CR	360	UCR or LCR
17	9	Silicone CR	200	UCR or LCR
18	10A	Phenolic & Epoxy CR	300	UCR or LCR
19	10B	Phenolic & Epoxy CR	360	UCR or LCR
20	11	Phenolic CR	274	UCR or LCR
21	12	Phenolic CR	378	UCR or LCR
22	13	Phenolic CR	230	UCR or LCR
23	14A	Phenolic CR	360	UCR or LCR
24	14B	Phenolic CR	322	UCR or LCR
25	15	Phenolic & Epoxy CR	250	UCR or LCR
26	16A	Phenolic & Epoxy CR	360	UCR or LCR
27	16B	Phenolic & Epoxy CR	384	UCR or LCR
28	17	Teflon CR	65	Currently Inactive
29	18	Epoxy CR	323	Currently Inactive
30	18A	Engineering Sample CR	380	Currently Inactive
31	19A	Epoxy CR	250	UCR or LCR
32	19B	Epoxy CR	218	UCR or LCR
33	20A	Melamine CR	376	UCR or LCR
34	20B	Melamine CR	630	UCR or LCR
35	21	Melamine CR	282	UCR or LCR
36	22A	DICY	114	UCR or LCR
37	30	Epoxy CR	114	UCR or LCR
38	23	Epoxy CR	212	UCR or LCR
39	24	Engineering Sample CR	160	UCR or LCR
40	25	Black Dye CR	175	UCR or LCR
41	26A	Vejin Mix	55	UCR or LCR
42	26B	Vejin Mix	55	UCR or LCR
43	27	Silicone Release	55	UCR LCR

44	27A	Epoxy CR	360	UCR or LCR
45	27B	Stearic Acid CR	110	UCR or LCR
46	28	Antifoam CR	55	UCR or LCR
47	29	Epoxy CR	419	UCR or LCR
48	Drum 2	Adhesive	55	UCR or LCR
49	1302	High Shear Mixer Cleaning Tank	120	LCR
50	1303	Treater 201 Equipment Cleaning Tank	127	Treater 201
51	1304	Treater 209 Equipment Cleaning Tank	136	Currently Inactive

	Fixed Tank #	Purpose	Volume (Gallons)	Location
1	122	Raw Epoxy Resin Storage	1250	UCR
2	123	Service to EU203	1250	UCR
3	124	Service to EU203	1250	UCR
4	125	Service to EU203	1250	UCR
5	126	Service to EU204	1250	UCR
6	127	Service to EU204	1250	UCR
7	128	Service to EU206	1250	UCR
8	129	Service to EU206	1250	UCR
9	130	Service to EU207	1250	UCR
10	131	Service to EU207	1250	UCR
11	132	Service to EU208	1250	UCR
12	1200	Make-Up Solvent	450	Currently Inactive
13	1201	Wash-Up	200	UCR
14	1211	Make-Up Solvent	200	UCR
15	1301	Half & Half Solvent	200	UCR