

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

Name of Permitted Facility: MasterBrand Cabinets, LLC
Facility Location: 1205 Peters Drive, Waterloo, IA 50703
Air Quality Operating Permit Number: 00-TV-055R4
Expiration Date: 5/1/2029
Permit Renewal Application Deadline: 11/1/2028

EIQ Number: 92-3949
Facility File Number: 07-01-061

Responsible Official

Name: Jared Dusthimer
Title: General Manager
Mailing Address: 1205 Peters Drive, Waterloo, IA 50703
Phone #: (563) 343-2646

Permit Contact Person for the Facility

Name: Jeff Orr
Title: EHS Manager
Mailing Address: 1205 Peters Drive, Waterloo, IA 50703
Phone #: (319) 235-5862

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

Marnie Stein

Marnie Stein, Supervisor of Air Operating Permits Section

5/02/2024

Date

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Abbreviations

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

Pollutants

PM.....	particulate matter
PM 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: MasterBrand Cabinets, LLC

Permit Number: 00-TV-055R4

Facility Description: Wood Kitchen Cabinets Manufacturing (SIC 2434)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
3-20	3-20	Glaze Line Spray Booth	01-A-1268-S1
3-21	3-21	Glaze Line Flash Tunnel	01-A-1269-S1
3-30	3-11A	Dynasty Cefla Autospray System	17-A-563
	3-11B	Dynasty Cefla Autospray system	
	3-12A	Dynasty Cefla Stack Hot Water Oven	
	3-12B	Dynasty Cefla Stack Hot Water Oven	
	3-13A	Dynasty Cefla Stack Infared Oven	
	3-13B	Dynasty Cefla Stack Infared Oven	
3-14	3-14	Hangline Toner Booth #1	98-A-014P-S3
3-15	3-15	Hangline Toner Booth #2	98-A-015P-S3
3-16	3-16	Hangline Stain Booth #1	98-A-016P-S3
3-17	3-17	Hangline Stain Booth #2	98-A-017P-S3
3-18	3-18	Natural Gas Stain Dry Oven	98-A-018P-S3
1-1A	1-1A	Towline Stain Spray Booth	86-A-144-S6
1-1B	1-1B	Towline Stain Spray Booth	01-A-283-S1
1-2	1-2	Towline Sealer Spray Booth	86-A-145-S6
1-3	1-3	Towline Topcoat Spray Booth	86-A-146-S6
1-8	1-8	Omega Stain Spray Booth	89-A-092-S6
1-10A	1-10A	Towline Finish Oven	89-A-094-S6
1-10B	1-10B	Towline Finish Oven	98-A-298-S7
3-1	3-1	Dynasty Toner Spray Booth	97-A-674-S5
3-2	3-2	Dynasty Stain Spray Booth	91-A-292-S6
3-3	3-3	Dynasty Sealer Spray Booth	91-A-293-S6
3-4	3-4	Dynasty Finish Oven	91-A-294-S6
3-5	3-5	Dynasty Blow Off Booth	91-A-295-S6
3-6	3-6	Dynasty Topcoat Spray Booth	91-A-296-S6
3-7	3-7	Finish Oven	91-A-297-S6
3-8A	3-8A	Finish Oven	91-A-298-S6
3-8B	3-8B	Finish Oven	98-A-299-S5

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
1-20	1-20	Spray Booth	11-A-221
1-21	1-21	Cure Oven (1.0 MMBtu/hr)	11-A-222
1-24	1-24	Air Make-Up Unit (1.728 MMBtu/hr)	11-A-225
4-1	4-1	Fountain Head Drawer Box Spray Booth	19-A-128
BH 1-45	BH 1-45	Woodworking – Opaque Assembly	12-A-211-S1
BH 1-85	BH 1-85	Sawmill Operations	89-A-091-S2
BH 2-71	BH 2-71	Omega Comp. Woodworking	03-A-594-S2
BH 3-34	BH 3-34	Dynasty Sanding Dust Collection East	04-A-157
BH 3-50	BH 3-50	Dynasty Plywood Woodworking	03-A-595-S1
BH 7-50	BH 7-50	Dynasty Plywood Dust Collection	15-A-029
BH 9-50	BH 9-50	Rough Mill Dust Collection North	04-A-158
BH 9-67	BH 9-67	Rough Saw Mill	03-A-593-S1
BH 2-61	BH 2-61	Woodworking – Final Machining	13-A-316-S1
CF 3-24	CF 3-24	Dynasty Cefla Sanding Operations.	21-A-164
BH 4-24	BH 4-24	Fountainhead Dust Collection System	15-A-596-S1
7-2	7-2	Pump Room	98-A-172
F-S	F-S	Facility Clean-Up Solvent Usage	96-A-980-S1
3-9	3-9	Natural Gas Boiler (3.25 MMBtu/hr)	-
3-10	3-10	Natural Gas Boiler (3.60 MMBtu/hr)	-
B-1	B-1	Natural Gas Boiler (3.0 MMBtu/hr)	-
B-2	B-2	Natural Gas Boiler (3.0 MMBtu/hr)	-
B-3	B-3	Natural Gas Boiler (3.0 MMBtu/hr)	-

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
I-SDU1	Sawdust Unloading
I-SDU3	Sawdust Unloading
I-SDU9	Sawdust Unloading
I-MU	Air Make-Up Units (13 units)
I-GO	Facility Gluing Operations
1-19	Color Lab Spray Booth

II. Plant-Wide Conditions

Facility Name: MasterBrand Cabinets, LLC

Permit Number: 00-TV-055R4

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

Permit Duration

The term of this permit is: Five (5) years from permit issuance

Commencing on: 5/2/2024

Ending on: 5/1/2029

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

Emission Limits

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

Opacity (visible emissions): 40% opacity

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

Sulfur Dioxide (SO₂): 500 parts per million by volume

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

Particulate Matter:

No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed on or 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"

Facility-wide Emission Limit:

Applicable Emission Units 3-11A, 3-11B, 3-12A, 3-12B, 3-13A, 3-13B, 3-14, 3-15, 3-16, 3-17, 3-18

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 215 tons/yr⁽¹⁾

Authority for Requirement: DNR Construction Permit 17-A-563, 98-A-014P-S3, 98-A-015P-S3, 98-A-016P-S3, 98-A-017P-S3, 98-A-018P-S3

⁽¹⁾The emission limit is based on a twelve (12) month rolling total.

BACT Specific Monitoring & Recordkeeping

- A. The total VOC usage of the Dynasty Paint Line shall not exceed 215 tons per rolling 365-day period. For each day of operation, the owner or operator shall track the following information for the Cefla Auto Spray System (EU 3-11A), Cefla Auto Spray System (EU 3-11B), Cefla Stack Hot Water Oven (EU 3-12A), Cefla Stack Hot Water Oven (EU 3-12B), Cefla Infrared Oven (EU 3-13A), Cefla Infrared Oven (EU 3-13B), Toner Spray Booth #1 (EU 3-14), Toner Spray Booth #2 (EU 3-15), Stain Spray Booth #1 (EU 3-16), Stain Spray Booth #2 (EU 3-17), and Natural Gas Stain Dry Oven (EU 3-18):

- (1) The date,
- (2) The type of material used in each emission unit,
- (3) The amount of each material used (in gallons) in each emission unit, and

(4) The VOC amount (in lbs VOC/gal) of each material used.

The owner or operator shall include any non-fugitive cleaning materials in this tracking. The information shall be entered into a spreadsheet or similar software tracking program that automatically updates the rolling 365-day VOC emission total for the listed emission units.

- B. The owner or operator may take credit for any waste VOC shipped off site according to the following specifications:
- (1) The owner or operator shall record the amount of waste shipped off-site from the Cefla Auto Spray System (EU 3-11A), Cefla Auto Spray System (EU 3-11B), Cefla Stack Hot Water Oven (EU 3-12A), Cefla Stack Hot Water Oven (EU 3-12B), Cefla Infrared Oven (EU 3-13A), Cefla Infrared Oven (EU 3-13B), Toner Spray Booth #1 (EU 3-14), Toner Spray Booth #2 (EU 3-15), Stain Spray Booth #1 (EU 3-16), Stain Spray Booth #2 (EU 3-17), and Natural Gas Stain Dry Oven (EU 3-18).
 - (2) The owner or operator shall analyze the VOC content of the waste sent off-site on a semi-annual basis to verify the VOC content of the waste sent off-site. The sample analyzed shall be taken as a representative sample (as defined in 40 CFR §260.10) of the waste sent off-site for each semi-annual period.
 - (3) If a significant reformulation of coating material occurs or if new coating materials are being used, the owner or operator shall conduct a monthly analysis of the VOC content of the waste shipped off-site for a 365-day period. After completion of the 365-day period, the owner or operator may return to a semi-annual basis as specified above.
 - (4) If monthly analysis is required, the sample analyzed shall be taken as a representative sample (as defined in 40 CFR §260.10) of the waste sent off-site for that month and shall be taken as representative until the subsequent monthly analysis is received.
 - (5) The credit that is calculated from the most current analysis and the amount of waste shipped off-site may be subtracted from the VOC rolling totals as of the date the waste was shipped off-site.

Authority for Requirement: DNR Construction Permit 17-A-563, 98-A-014P-S3, 98-A-015P-S3, 98-A-016P-S3, 98-A-017P-S3, 98-A-018P-S3

40 CFR 63 Subpart DDDDD Requirements

Boilers 3-9, 3-10, B-1, B-2, and B-3 are subject to the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63 Subpart DDDDD].

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

III. Emission Point-Specific Conditions

Facility Name: MasterBrand Cabinets, LLC
 Permit Number: 00-TV-055R4

Emission Point ID Number: 3-20 and 3-21
Glazed and Roll Coater

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3-20	3-20	Glaze Line Spray Booth	CE 3-20: Dry Filter	Glaze	4.83 gal/hr.	01-A-1268-S1
3-21	3-21	Glaze Line Flash Tunnel	NA	Glaze	4.83 gal/hr.	01-A-1269-S1

Applicable Requirements

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

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

EP 3-20 Only

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: DNR Construction Permit 01-A-1268-S1
 567 IAC 23.3(2)"d"

⁽¹⁾ Per DNR Air Quality Policy 3-b-08, Opacity Limits, 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. The permit holder shall also file an "indicator opacity exceedance report" with the DNR field office and keep records as required in the policy. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/dscf, 1.26 lb/hr

Authority for Requirement: DNR Construction Permit 01-A-1268-S1
 567 IAC 23.4 (13)

Pollutant: PM₁₀

Emission Limit(s): 1.26 lb/hr

Authority for Requirement: DNR Construction Permit 01-A-1268-S1

EP 3-20 & EP 3-21 Each

Pollutant: Total HAP's

Emission Limit(s): 1.0 lb VHAP/lb solid

Authority for Requirement: DNR Construction Permits 01-A-1268-S1, 01-A-1269-S1
567 IAC 23.1(4)"aj"
40 CFR 63 Subpart JJ

Pollutant: Volatile Organic Compounds (VOC's)

Emission Limit(s): 37.7 tons/yr.⁽²⁾

Authority for Requirement: DNR Construction Permits 01-A-1268-S1, 01-A-1269-S1

⁽²⁾ This is the combined limit for the Glaze Line – spray booth EP-3-20 and flash tunnel EP 3-21.

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. This emissions unit is subject to all applicable requirements as specified in 40 CFR, Part 63, Subpart JJ, 63.802 and 63.803.
- B. The amount of material used in the glaze line (EP 3-20 and EP 3-21) shall not exceed 12,550 gallons per twelve month rolling period.
- C. The maximum VOC content of any material used in the glaze line shall not exceed 6.0 lbs VOC/gal, as applied.
- D. Only one spray gun may be operated at any one time in the spray booth
- E. The control equipment shall be maintained and replaced according to manufacturer's recommendations.
- F. The emissions unit is subject to all applicable requirements as specified in 40 CFR, 63.804, 63.806 and 63.807.
- G. The owner or operator shall maintain Material Safety Data Sheets of all materials used, which show the as-applied VOC content and VHAP (as defined in 40 CFR 63.801) content.
- H. The owner or operator shall maintain records of the amount of material used in the glaze line, and update the rolling twelve month total on a monthly basis.
- I. The owner or operator shall keep records showing control equipment maintenance and replacement.

Authority for Requirement: DNR Construction Permits 01-A-1268-S1, 01-A-1269-S1
40 CFR 63 Subpart JJ
567 IAC 23.1(4)"aj"

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

Emission Point	3-20	3-21
Stack Height, (ft, from the ground)	40	40
Stack Opening, (inches, dia.)	36	12
Exhaust Flow Rate (scfm)	14,570	3,000
Exhaust Temperature (°F)	Ambient	Ambient
Discharge Style	Vertical Unobstructed	Vertical Unobstructed
Authority for Requirement	01-A-1268-S1	01-A-1269-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No
(Required for CE 3-20, See Appendix B.)

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: 3-30

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3-11A	Dynasty Cefla Autospray System	CE 3-11A: Dry Filter	Topcoat	11.20 gal/hr; 0.44 gal/hr cleaning solvent	17-A-563
3-11B	Dynasty Cefla Autospray System	CE 3-11B: Dry Filter	Topcoat	15.00 gal/hr ; 0.44 gal/hr cleaning solvent	
3-12A	Dynasty Cefla Stack Hot Water Oven	Regenerative Thermal Oxidizer (CE-11C) 8.8 MMBTU/hr (EU 3-11A and 3-11B vent through oxidizer post dry filters)	Topcoat	NA	
3-12B	Dynasty Cefla Stack Hot Water Oven		Topcoat	NA	
3-13A	Dynasty Cefla Stack Infared Oven		Topcoat	NA	
3-13B	Dynasty Cefla Stack Infared Oven		Topcoat	NA	

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: DNR Construction Permit 17-A-563
567 IAC 23.3(2)"d"

⁽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).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.67 lb/hr, 0.01 gr/scf

Authority for Requirement: DNR Construction Permit 17-A-563
567 IAC 23.4(13)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppm_v

Authority for Requirement: DNR Construction Permit 17-A-563
567 IAC 23.3(3)"e"

Pollutant: Volatile Organic Compounds (VOC's)

Emission Limit(s): 1.93 lb/hr, 83.25tons/yr⁽²⁾

Authority for Requirement: DNR Construction Permit 17-A-563

⁽²⁾Includes fugitive emissions from the dynasty paint line emission units venting through EP 3-30. 85% of VOC emissions from this emission source are expected to be captured and vented through EP 3-30. Compliance with this limit will be demonstrated by completing the initial VOC performance test required in Monitor Requirements section and meeting the operating limits and recordkeeping requirements in Item N in Operating Requirements.

Pollutant: VHAP

Emission Limit(s): 1.0 kg VHAP/kg solids⁽³⁾

Authority for Requirement: DNR Construction Permit 17-A-563

567 IAC 23.1(4)"aj"

40 CFR 63 Subpart JJ

⁽³⁾Limit for finishing operations established in 40 CFR §63.802(a)(1). 1.0 kg VHAP/kg solids = 1.0 lb VHAP/lb solids.

Pollutant: Formaldehyde

Emission Limit(s): See Footnote⁽⁴⁾

Authority for Requirement: DNR Construction Permit 17-A-563

567 IAC 23.1(4)"aj"

40 CFR 63 Subpart JJ

⁽⁴⁾In accordance with 40 CFR §63.802(a)(4), the owner or operator shall limit formaldehyde emissions by either:

- (a) Limiting total formaldehyde (F_{total}) use in coatings and contact adhesives to no more than 400 pounds per rolling twelve (12) month period or
- (b) Use coatings and contact adhesives only if they are low-formaldehyde coatings and adhesives, in any wood furniture manufacturing operations [1.0 kg formaldehyde/kg solids (1b formaldehyde/lb solids)].

See plant-wide conditions for additional applicable requirements.

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. The owner or operator shall maintain a log of all materials sprayed in the emission units that vent through EP 3-30. The log shall contain the following information:
 - (1) The material name,
 - (2) The VOC content (as applied) in both lb/gal and lb VOC/lb solids (or kg VOC/kg solids),
 - (3) The VHAP content (as applied) in both lb/gal and lb VHAP/lb solids (or kg VHAP/kg solids),
 - (4) The formaldehyde content (as applied) in both lb/gal and lb formaldehyde/lb solids (or kg formaldehyde/kg solids), and
 - (5) A Safety Data Sheet (SDS), Certified Product Data Sheet (CPDS), or similar document of each material.
- B. The owner or operator shall maintain the all control equipment in accordance with the manufacturer's specifications and maintenance schedule. The owner or operator shall maintain a log of all inspections and maintenance conducted on the control equipment.

NESHAP Specific Monitoring & Recordkeeping

- C. In accordance with 40 CFR §63.802(c), the owner or operator shall at all times maintain the emission units and the control equipment venting through EP 3-30 in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Department which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the equipment.
- D. In accordance with 40 CFR §63.803, the owner or operator shall maintain a written work practice implementation plan that defines environmentally desirable work practices for each wood furniture operation manufacturing operation and addresses each of the work practice standards detailed in 40 CFR §63.803(b) - 40 CFR §63.803(l). The written work practice implementation plan shall be available for inspection by the Department upon request. If the Department determines the plan does not include sufficient mechanisms for ensuring that the work practice standards are being implemented, the Department may require the owner or operator to modify the plan.
- E. The owner or operator shall demonstrate compliance with the NESHAP Subpart JJ requirements by following the procedures detailed in 40 CFR §63.804.
- F. The owner or operator shall meet all applicable reporting requirements as required by 40 CFR §63.807.
- G. All applicable NESHAP Subpart JJ requirements not specifically outlined in this permit still apply.
- H. If the owner or operator elects to demonstrate compliance with the 400 pounds of formaldehyde per rolling twelve (12) month period the owner or operator shall:
 - (1) Record the amount of formaldehyde emitted for each month of operation and
 - (2) Calculate and record the rolling twelve (12) month total amount of formaldehyde emitted.

Project Number 08-019 Specific Monitoring & Recordkeeping

- I. In accordance with 567 IAC 33.3(18)"f"(1), prior to beginning actual construction of the project (Project Number 08-019) the owner or operator shall document:
 - a. A description of the project (Project Number 08-019),
 - b. Identification of the emission unit(s) whose emissions of a regulated NSR pollutant as defined at the beginning of actual construction that could be affected by the project (Project Number 08-019), and
 - c. A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant subject to this review, including the baseline actual emissions (BAE), the projected actual emissions (PAE), the amount of emissions excluded under paragraph "3" of the definition of "*projected actual emissions*" in subrule 33.3(1), an explanation describing why such amount was excluded, and any netting analysis if applicable.

Per 567 IAC 33.3(18)"f"(1), the owner or operator shall maintain a record of the information required in (a) – (c) above.
- J. Per 567 IAC 33.3(18)"f"(4), the owner or operator shall:
 - a. Monitor the emission of any regulated New Source Review (NSR) pollutant subject to this review that could increase as a result of the project that is emitted by any emissions unit identified in subparagraph (1).

- b. Calculate the annual emissions, in tons per year on a calendar-year basis, for a period of ten (10) years following resumption of regular operations and maintain a record of regular operations after the change.
- K. Per 567 IAC 33.3(18)"f"(4) and 567 IAC 33.3(18)"f"(5), the owner or operator shall maintain a record containing the information required in Condition L of this permit and that record shall be retained by the owner or operator for a period of ten (10) years after the project (Project Number 08-019) is completed.
- L. The VOC content in the materials used for coating operations in the following emission units shall not exceed 4.32 lb/gal: EU 3-11A, EU 3-12A, and EU 3-13A. The VOC content in the materials used for coating operations in the following emission units shall not exceed 3.97 lb/gal: EU 3-11B, EU 3-12B, and EU 3-13B. The VOC content in the materials used for cleaning operations in the following emission units shall not exceed 6.72 lb/gal: EU 3-11A, EU 3-11B, EU 3-12A, EU 3-12B, EU 3-13A, and EU 3-13B. The solids content in the materials used for any operations in the following emission units shall not exceed 6.85 lb/gal: EU 3-11A, EU 3-11B, EU 3-12A, EU 3-12B, EU 3-13A, and EU 3-13B. The owner or operator shall maintain the Safety Data Sheets (SDS) of each material used in EU 3-11A, EU 3-11B, EU 3-12A, EU 3-12B, EU 3-13A, and EU 3-13B.

Regenerative Thermal Oxidizer Specific Monitoring & Recordkeeping

- M. In accordance with 40 CFR §804(g)(4)"ii", the owner or operator shall demonstrate continuous compliance by installing, calibrating, maintaining, and operating a temperature monitoring device equipped with a continuous recorder. The temperature monitoring device shall be installed in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs.
- N. The RTO (CE-11C) shall be operated at all times the Dynasty Paint Line is in operation, which includes cleaning and coating operations. The RTO (CE-11C) shall maintain an average temperature greater than 1,500°F on an hourly basis. The owner or operator shall:
 - a. Maintain and operate a temperature monitoring device that provides the combustion chamber temperature every 10 minutes;
 - b. Record the combustion chamber temperature every 10 minutes; and
 - c. Every hour, calculate and record the average hourly combustion chamber temperature.

Authority for Requirement: DNR Construction Permit 17-A-563
40 CFR 63 Subpart JJ
567 IAC 23.1(4)"aj"

See plant-wide conditions for additional applicable requirements.

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

Stack Height, (ft., from the ground): 35
Stack Opening, (inches, dia.): 42
Exhaust Flow Rate (scfm): 30,000
Exhaust Temperature (°F): 370
Discharge Style: Vertical, unobstructed
Authority for Requirement: DNR Construction Permit 17-A-563

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No
(Required for 3-11A and 3-11B. See Appendix B.)

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: 3-14, 3-15, 3-16, 3-17, 3-18

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3-14	3-14	Toner Spray Booth #1	CE 3-14: Dry Filter	Toner	14.1 gal/hr per gun (8 gun max.)	98-A-014P-S3
3-15	3-15	Toner Spray Booth #2	CE 3-15: Dry Filter	Toner	14.1 gal/hr per gun (8 gun max.)	98-A-015P-S3
3-16	3-16	Stain Spray Booth #1	CE 3-16: Dry Filter	Stain	14.1 gal/hr per gun (8 gun max.)	98-A-016P-S3
3-17	3-17	Stain Spray Booth #2	CE 3-17: Dry Filter	Stain	14.1 gal/hr per gun (8 gun max.)	98-A-017P-S3
3-18	3-18	Stain Dry Oven	NA	Natural Gas	0.35 MMBtu/hr.	98-A-018P-S3

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: DNR Construction Permit – See construction permits listed above

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: DNR Construction Permit – See construction permits listed above
567 IAC 23.4(13)

Pollutant: PM₁₀ - (Excludes 3-18)

Emission Limit(s): 0.31 lb/hr

Authority for Requirement: DNR Construction Permit – See construction permits listed above

See plant-wide conditions for additional applicable requirements.

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. All applicable requirements of 40 CFR Part 63 Subpart JJ (National Emission Standards for Hazardous Air Pollutants for Wood Manufacturing Operations) shall apply.
- B. Masterbrand Cabinets shall conduct a program of post-construction monitoring for ozone for a minimum of one ozone monitoring season during which painting operations, etc. at the facility are basically at full operation. At the end of the season, the data will be reviewed with regard to the necessity of continuing. A protocol for the required monitoring, appropriate recordkeeping and reporting shall be submitted to the IDNR for their approval. This protocol shall be submitted within 180 days of the issuance of this permit. If the post construction monitoring required demonstrates a violation of the National Ambient Air Quality Standards and that the contribution from the Masterbrand facility exceeds 0.01 ppm, their emission of VOCs shall immediately be reduced proportionately to indicate no more than a 0.01 ppm impact. This ozone monitoring has been completed by Masterbrand Cabinets and post-construction monitoring requirements for ozone are no longer necessary. The Department continues to operate the ozone monitoring site in Waverly, Iowa.
- C. All applicable requirements of 40 CFR Part 63 Subpart JJ (National Emission Standards for Hazardous Air Pollutants for Wood Manufacturing Operations) shall apply.

Authority for Requirement: DNR Construction Permit – See construction permits listed above
40 CFR 63 Subpart JJ
567 IAC 23.1(4)"aj"

See plant-wide conditions for additional applicable requirements.

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

Emission Point	Stack Height, (ft, from the ground)	Stack Opening, (inches)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement
3-14	39	34 (dia)	11,955	Ambient	Vertical Unobstructed	98-A-014P-S3
3-15	49	34 (dia)	11,955	Ambient	Vertical Unobstructed	98-A-015P-S3
3-16	43	34 (dia)	11,955	Ambient	Vertical Unobstructed	98-A-016P-S3
3-17	49	34 (dia)	11,955	Ambient	Vertical Unobstructed	98-A-017P-S3
3-18	31.17	12 (dia.)	1,000	Ambient	Vertical Obstructed	98-A-018P-S3

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No
(Required for CE 3-14, 3-15, 3-16, 3-17. See Appendix B.)

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: 1-1A, 1-1B, 1-2, 1-3, 1-8, 1-10A, 1-10B, 3-1, 3-2, 3-3, 3-4, 3-5, 3-6, 3-7, 3-8A, 3-8B

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
1-1A	1-1A	Towline Stain Spray Booth	CE 1-1A: Dry Filter	Stain	9.91 lb/hr.	86-A-144-S6
1-1B	1-1B	Towline Stain Spray Booth	CE 1-1B: Dry Filter	Stain	9.91lb/hr.	01-A-283-S1
1-2	1-2	Towline Sealer Spray Booth	CE 1-2: Dry Filter	Sealer	6.36 lb/hr.	86-A-145-S6
1-3	1-3	Towline Topcoat Spray Booth	CE 1-3: Dry Filter	Topcoat	10.45 lb/hr.	86-A-146-S6
1-8	1-8	Omega Stain Spray Booth	CE 1-8: Dry Filter	Stain	8.64 lb/hr.	89-A-092-S6
1-10A	1-10A	Towline Finish Oven	NA	Finish Natural Gas	0.97 lb/hr. 1 MMBtu/hr.	89-A-094-S6
1-10B	1-10B	Towline Finish Oven	NA	Finish Natural Gas	0.97 lb/hr. 1 MMBtu/hr.	98-A-298-S7
3-1	3-1	Dynasty Toner Spray Booth	CE 3-1: Dry Filter	Stain	0.6 lb/hr.	97-A-674-S5
3-2	3-2	Dynasty Stain Spray Booth	CE 3-2: Dry Filter	Stain	5.16 lb/hr.	91-A-292-S6
3-3	3-3	Dynasty Sealer Spray Booth	CE 3-3: Dry Filter	Sealer	3.98 lb/hr.	91-A-293-S6
3-4	3-4	Dynasty Finish Oven	NA	Finish Natural Gas	0.24 lb/hr. 1 MMBtu/hr.	91-A-294-S6
3-5	3-5	Dynasty Blow Off Booth	CE 3-5: Dry Filter	Topcoat	1.303 lb/hr.	91-A-295-S6
3-6	3-6	Dynasty Topcoat Spray Booth	CE 3-6: Dry Filter	Topcoat	7.78 lb/hr.	91-A-296-S6
3-7	3-7	Finish Oven	NA	Finish Natural Gas	0.41 lb/hr. 1 MMBtu/hr.	91-A-297-S6
3-8A	3-8A	Finish Oven	NA	Finish	0.41 lb/hr.	91-A-298-S6
3-8B	3-8B	Finish Oven	NA	Stain	0.41 lb/hr.	98-A-299-S5

Applicable Requirements

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

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

Emission Point	Opacity⁽⁵⁾	PM₁₀	Particulate Matter (PM)	Sulfur Dioxide (SO₂)	Authority for Requirement
1-1A	40% ⁽¹⁾	0.65 lb/hr.	0.01 gr/dscf ⁽²⁾	NA	86-A-144-S6
1-1B	40% ⁽¹⁾	0.65 lb/hr.	0.01 gr/dscf ⁽²⁾	NA	01-A-283-S1
1-2	40% ⁽¹⁾	0.1312 lb/hr.	0.01 gr/dscf ⁽²⁾	NA	86-A-145-S6
1-3	40% ⁽¹⁾	0.2125 lb/hr.	0.01 gr/dscf ⁽²⁾	NA	86-A-146-S6
1-8	40% ⁽¹⁾	0.26 lb/hr.	0.01 gr/dscf ⁽²⁾	NA	89-A-092-S6
1-10A	40% ⁽¹⁾	0.0049 lb/hr.	0.1 gr/dscf ⁽³⁾	500 ppmv ⁽⁴⁾	89-A-094-S6
1-10B	40% ⁽¹⁾	0.0049 lb/hr.	0.1 gr/dscf ⁽³⁾	500 ppmv ⁽⁴⁾	98-A-298-S7
3-1	40% ⁽¹⁾	0.0033 lb/hr.	0.01 gr/dscf ⁽²⁾	NA	97-A-674-S5
3-2	40% ⁽¹⁾	0.4651 lb/hr.	0.01 gr/dscf ⁽²⁾	NA	91-A-292-S6
3-3	40% ⁽¹⁾	0.1542 lb/hr.	0.01 gr/dscf ⁽²⁾	NA	91-A-293-S6
3-4	40% ⁽¹⁾	0.0051 lb/hr.	0.1 gr/dscf ⁽³⁾	500 ppmv ⁽⁴⁾	91-A-294-S6
3-5	40% ⁽¹⁾	0.65 lb/hr.	0.01 gr/dscf ⁽²⁾	NA	91-A-295-S6
3-6	40% ⁽¹⁾	0.1542 lb/hr.	0.01 gr/dscf ⁽²⁾	NA	91-A-296-S6
3-7	40% ⁽¹⁾	0.0051 lb/hr.	0.1 gr/dscf ⁽³⁾	500 ppmv ⁽⁴⁾	91-A-297-S6
3-8A	40% ⁽¹⁾	0.0051 lb/hr.	0.1 gr/dscf ⁽³⁾	NA	91-A-298-S6
3-8B	40% ⁽¹⁾	0.0051 lb/hr.	0.1 gr/dscf ⁽³⁾	NA	98-A-299-S5

⁽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. The permit holder shall also file an "indicator opacity exceedance report" with the DNR field office and keep records as required in the policy. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Authority for Requirement

⁽²⁾ 567 IAC 23.4(13)

⁽³⁾ 567 IAC 23.3(2)"a"

⁽⁴⁾ 567 IAC 23.3(3)"e"

⁽⁵⁾ 567 IAC 23.3(2)"d"

Pollutant: Total HAP's

Emission Limit(s): 1.0 lb VHAP/lb solid

Authority for Requirement: DNR Construction Permits – See Construction Permit List Above
40 CFR 63 Subpart JJ
567 IAC 23.1(4)"aj"

Pollutant: Volatile Organic Compounds (VOC's)

Emission Limit(s): 248.8 tons/yr⁽⁵⁾

Authority for Requirement: DNR Construction Permits – See Construction Permit List Above

⁽⁵⁾12-month rolling total for all emission points listed in the table above.

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The total VOC usage for the sources permitted as 86-A-144-S6 through 86-A-146-S6, 89-A-092-S6, 89-A-094-S6, 91-A-292-S6 through 91-A-298-S6, 97-A-674-S5, 98-A-298-S5, 98-A-299-S5 and 01-A-283-S1 shall not exceed 248.8 tons per 365 day rolling period.
2. The owner or operator shall keep records showing the amount of all materials used and their respective VOC contents for the sources permitted as 86-A-144-S6 through 86-A-146-S6, 89-A-092-S6, 89-A-094-S6, 91-A-292-S6 through 91-A-298-S6, 97-A-674-S5, 98-A-298-S5, 98-A-299-S5 and 01-A-283-S1. This log shall include the Material Safety Data Sheet (MSDS) or equivalent for each material showing the VOC content.
3. The rolling 365-day VOC total for the above listed sources shall be updated each day material is used.
4. The owner or operator shall follow all applicable requirements of 40 CFR Part 63 Subpart JJ (National Emission Standards for Hazardous Air Pollutants for Wood Manufacturing Operations).

Authority for Requirement: DNR Construction Permits – See Construction Permit List Above
40 CFR 63 Subpart JJ
567 IAC 23.1(4)"aj"

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

Emission Point	Stack Height, (ft, from the ground)	Stack Opening, (inches, dia.)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement
1-1A	35	34	13,000	Ambient	Vertical Unobstructed	86-A-144-S6
1-1B	35	34	13,000	Ambient	Vertical Unobstructed	01-A-283-S1
1-2	44	30	11,400	Ambient	Vertical Unobstructed	86-A-145-S6
1-3	40	30	11,400	Ambient	Vertical Unobstructed	86-A-146-S6
1-8	26.5	30	10,000	Ambient	Vertical Unobstructed	89-A-092-S6
1-10A	27.7	12	4,400	Ambient	Vertical Unobstructed	89-A-094-S6
1-10B	33	18	2,000	Ambient	Vertical Unobstructed	98-A-298-S7
3-1	48	34	15,200	Ambient	Vertical Unobstructed	97-A-674-S5
3-2	45	34	15,200	Ambient	Vertical Unobstructed	91-A-292-S6
3-3	50	34	15,200	Ambient	Vertical Unobstructed	91-A-293-S6
3-4	33	16	2,400	Ambient	Vertical Unobstructed	91-A-294-S6
3-5	44	36	15,200	Ambient	Vertical Unobstructed	91-A-295-S6
3-6	46	36	15,200	Ambient	Vertical Unobstructed	91-A-296-S4
3-7	31.7	16	2,400	Ambient	Vertical Unobstructed	91-A-297-S6
3-8A	30	12	2,400	Ambient	Vertical Unobstructed	91-A-298-S6
3-8B	30	12	2,400	Ambient	Vertical Unobstructed	98-A-299-S5

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No
(Required for CE's 1-1A, 1-1B, 1-2, 1-3, 1-8, 3-1, 3-2, 3-3, 3-5, 3-6. See Appendix B.)

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: 1-20, 1-21, 1-24

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
1-20	1-20	Spray Booth	CE 1-20: Dry Filter	Stains and Toner	2.14 gallons/hr.	11-A-221
1-21	1-21	Cure Oven	NA	Finishes Natural Gas	1.0 MMBtu/hr	11-A-222
1-24	1-24	Air Make-Up Unit	NA	Natural Gas	1.728 MMBtu/hr	11-A-225

Applicable Requirements

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

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

Emission Point	Opacity	PM ₁₀	Particulate Matter	SO ₂	Authority for Requirement
1-20	40% ⁽¹⁾⁽²⁾	NA	0.01 gr/dscf ⁽³⁾	NA	11-A-221
1-21	40% ⁽¹⁾⁽²⁾	0.25lb/hr	0.25 lb/hr, 0.1 gr/dscf ⁽⁴⁾	500 ppm _v ⁽⁵⁾	11-A-222
1-24	40% ⁽¹⁾⁽²⁾	0.25lb/hr	0.25 lb/hr, 0.1 gr/dscf ⁽⁴⁾	500 ppm _v ⁽⁵⁾	11-A-225

⁽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

⁽²⁾ 567 IAC 23.3(2)"d"

⁽³⁾ 567 IAC 23.4(13)

⁽⁴⁾ 567 IAC 23.3(2)"a"

⁽⁵⁾ 567 IAC 23.3(3)"e"

Pollutant: Total HAP's

Emission Limit(s): 1.0 lb VHAP/lb solid

Authority for Requirement: 567 IAC 23.1(4)"aj"
40 CFR 63 Subpart JJ

EPI-20 Only

Pollutant: Volatile Organic Compounds (VOC's)

Emission Limit(s): 39.0 tons/yr⁽⁶⁾

Authority for Requirement: DNR Construction Permits 11-A-221

⁽⁶⁾ Total VOC emissions shall not exceed 39.0 tons per 365 day rolling period for EU 1-20

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The owner or operator shall keep records and make reports as required in 40 CFR 63.806 and 63.807.
2. The owner or operator shall keep records of control equipment inspections and maintenance.
3. The owner or operator shall keep records of the amount and type of each VOC-containing material used in the spray booth (EU 1-20) on a daily basis. The owner or operator shall keep Material Safety Data Sheets (MSDS) of all materials used, which show the VOC content.
4. The owner or operator shall update the 365 day rolling total amount of VOC emitted from the spray booth (EU 1-20) each day of operation. When the 365 day rolling total is below 20 tons of VOC, the updating may be done on a monthly basis instead, until such time as the 365 day rolling total exceeds 20 tons of VOC when it shall go back to a daily basis.
5. The owner or operator may take credits for any waste VOC shipped offsite from this unit. If this is done, the owner or operator must record the amount shipped offsite, and also analyze the VOC content of this waste at least once per month. The sample analyzed shall be a representative sample (as defined in 40 CFR 260.10) of the loads credit is being taken for. The credit (calculated from the latest analysis and the amount shipped) may then be subtracted from the rolling total as of the date the analysis is received.

Authority for Requirement: DNR Construction Permits 11-A-221, 11-A-222, 11-A-225
40 CFR 63 Subpart JJ
567 IAC 23.1(4)"aj"

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

Emission Point	Stack Height, (ft, from the ground)	Stack Opening, (inches)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement
1-20	29	34 (dia.)	11,200	Ambient	Vertical Unobstructed	11-A-221
1-21	27	12 (dia.)	1,420	100	Vertical Unobstructed	11-A-222
1-24	27	36 x 36	16,000	100	Vertical Unobstructed	11-A-225

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No
(Required for CE 1-20. See Appendix B.)

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: 4-1

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
4-1	Drawer Box Spray Booth	CE 4-1: Dry Filters	Cabinets	1 Air-assisted gun Rated @ 4.8 gal/hr	19-A-128

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: DNR Construction Permit 19-A-128
567 IAC 23.3(2)"d"

⁽¹⁾ An exceedance of the indicator opacity of "no visible emissions (No VE)" 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).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: DNR Construction Permit 19-A-128
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 39.0 tons/yr

Authority for Requirement: DNR Construction Permit 19-A-128

Pollutant: VHAP⁽²⁾

Emission Limit(s): 1.0 kg VHAP/kg solids⁽³⁾

Authority for Requirement: DNR Construction Permit 19-A-128
40 CFR 63 Subpart JJ
567 IAC 23.1(4)"aj"

⁽²⁾As defined in 40 CFR §63.801, VHAP means any volatile hazardous air pollutant listed in Table 2 to NESHAP Subpart JJ.

⁽³⁾Limit for finishing operations established in 40 CFR §63.802(a)(1). 1.0 kg VHAP/kg solids = 1.0 lb VHAP/lb solids.

Pollutant: Formaldehyde

Emission Limit(s): See Footnote⁽⁴⁾

Authority for Requirement: DNR Construction Permit 19-A-128

40 CFR 63 Subpart JJ

567 IAC 23.1(4)"aj"

⁽⁴⁾In accordance with 40 CFR §63.802(a)(4), the owner or operator shall limit formaldehyde emissions by either:

- (a) Limiting total formaldehyde (F_{total}) use in coatings and contact adhesives to no more than 400 pounds per rolling twelve (12) month period; or,
- (b) Use coatings and contact adhesives only if they are low-formaldehyde coatings and adhesives, in any wood furniture manufacturing operations [a product concentration of less than or equal to 1.0 percent formaldehyde by weight, as described in a certified product data sheet for the material.].

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. The owner or operator shall maintain a log of all materials sprayed in the emission unit (drawer box spray booth) that vent through EP 04-01. The log shall contain the following information:
 - (1) The material name,
 - (2) The VOC content (as applied) in both lb/gal and lb VOC/lb solids (or kg VOC/kg solids),
 - (3) The VHAP content (as applied) in both lb/gal and lb VHAP/lb solids (or kg VHAP/kg solids),
 - (4) The formaldehyde content (as applied) in both lb/gal and concentration (percent formaldehyde by weight), and
 - (5) A Safety Data Sheet (SDS), Certified Product Data Sheet (CPDS), or similar document of each material.
- B. The owner or operator shall maintain the all control equipment in accordance with the manufacturer's specifications and maintenance schedule. The owner or operator shall maintain a log of all inspections and maintenance conducted on the control equipment.

NESHAP Specific Monitoring & Recordkeeping

- C. In accordance with 40 CFR §63.802(c), the owner or operator shall at all times maintain the emission unit and the control equipment venting through EP 04-01 in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Department which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the equipment.
- D. In accordance with 40 CFR §63.803, the owner or operator shall maintain a written work practice implementation plan that defines environmentally desirable work practices for each wood furniture operation manufacturing operation and addresses each of the work practice standards detailed in 40 CFR §63.803(b) - 40 CFR §63.803(l). The written work practice implementation plan shall be available for inspection by the Department upon request. If the Department determines the plan does not include sufficient mechanisms for ensuring that the work practice standards are being implemented, the Department may

- require the owner or operator to modify the plan.
- E. The owner or operator shall demonstrate compliance with the NESHAP Subpart JJ requirements by following the procedures detailed in 40 CFR §63.804.
- F. The owner or operator shall meet all applicable reporting requirements as required by 40 CFR §63.807.
- G. All applicable NESHAP Subpart JJ requirements not specifically outlined in this permit still apply.
- H. If the owner or operator elects to demonstrate compliance with the 400 pounds of formaldehyde per rolling twelve (12) month period the owner or operator shall:
 - (1) Record the amount of formaldehyde emitted for each month of operation and
 - (2) Calculate and record the rolling twelve (12) month total amount of formaldehyde emitted.

VOC Monitoring & Recordkeeping Requirements

- I. The total amount of VOC emitted by the Drawer Box Spray Booth (EU 04-01) shall not exceed 39.0 tons per rolling 12-month period.
- J. For each day of operation, the owner or operator shall track the following information for the Drawer Box Spray Booth (EU 04-01):
 - (1) The date,
 - (2) The type of material used in the emission unit,
 - (3) The amount of each material used (in gallons) in the emission unit, and
 - (4) The VOC concentration (in lbs VOC/gal) of each material used.
 The owner or operator shall include any non-fugitive cleaning materials in this tracking.
- K. The permittee shall maintain the following monthly records:
 - (1) The identification, the VOC content, and the amount of each VOC-containing material used in the Drawer Box Spray Booth (EU 04-01).
 - (2) For the purposes of calculating emissions, all VOCs may be considered emitted on the day the materials are delivered to the facility, to the production line, or removed from storage, etc.
 - (3) The amount of VOC emissions from the Drawer Box Spray Booth (EU 04-01), in tons.
 - (4) The 12-month rolling total of the amount of VOC emissions from the Drawer Box Spray Booth (EU 04-01), in tons.
- L. If the 12-month rolling total of the VOC emissions from the Drawer Box Spray Booth (EU 04-01) exceeds 30.0 tons, the permittee shall immediately begin keeping the following daily records:
 - (1) The amount of VOC emissions from the Drawer Box Spray Booth (EU 04-01), in tons.
 - (2) The 365-day rolling total of the amount of VOC emissions from the Drawer Box Spray Booth (EU 04-01), in tons.
 - (3) Daily calculations for VOC emissions shall continue until the 365-day rolling total of the amount of VOC emissions from the Drawer Box Spray Booth (EU 04-01) drops below 30.0 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of VOC emissions will cease per condition L of this permit. If the emissions once again exceed 30.0 tons, daily recordkeeping will be required per condition L of this permit.
 - (4) For the purposes of calculating emissions, all VOCs may be considered emitted on

the day the materials are delivered to the facility, to the production line, or removed from storage, etc.

- M. The owner or operator may take credit for any waste VOC shipped off site according to the following specifications:
- (1) The owner or operator shall record the amount of waste shipped off-site from the Drawer Box Spray Booth (EU 04-01).
 - (2) The owner or operator shall analyze the VOC content of the waste sent off-site on a semi-annual basis to verify the VOC content of the waste sent off-site. The sample analyzed shall be taken as a representative sample (as defined in 40 CFR §260.10) of the waste sent off-site for each semi-annual period.
 - (3) If a significant reformulation of coating material occurs or if new coating materials are being used, the owner or operator shall conduct a monthly analysis of the VOC content of the waste shipped off-site for a 365-day period. After completion of the 365-day period, the owner or operator may return to a semi-annual basis as specified above.
 - (4) If monthly analysis is required, the sample analyzed shall be taken as a representative sample (as defined in 40 CFR §260.10) of the waste sent off-site for that month and shall be taken as representative until the subsequent monthly analysis is received.
 - (5) The credit that is calculated from the most current analysis and the amount of waste shipped off-site may be subtracted from the VOC rolling totals as of the date the waste was shipped off-site.

Authority for Requirement: DNR Construction Permit 19-A-128
40 CFR 63 Subpart JJ
567 IAC 23.1(4)"aj"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft., from the ground): 30

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 7,000

Exhaust Temperature (°F): 70

Discharge Style: Vertical unobstructed

Authority for Requirement: DNR Construction Permit 19-A-128

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No
(Required for CE 4-1. See Appendix B)

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: BH 1-45, BH 1-85, BH 2-71, BH 3-34, BH 3-50, BH 7-50, BH 9-50, BH 9-67

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
BH 1-45	BH 1-45	Woodworking Equipment – Omega Assembly Opaque Pure White Finish	CE BH 1-45: Baghouse	Cabinets	1,080 cabinets/day	12-A-211-S1
BH 1-85	BH 1-85	Sawmill Operations	CE BH 1-85: Baghouse	Cabinets	2,300 cabinets/day	89-A-091-S2
BH 2-71	BH 2-71	Omega Comp. Woodworking	CE BH 2-71: Baghouse	Cabinets	2,300 cabinets/day	03-A-594-S2
BH 3-34	BH 3-34	Dynasty Sanding Dust Collection East	CE BH 3-34: Baghouse	Cabinets	2,300 cabinets/day	04-A-157
BH 3-50	BH 3-50	Dynasty Plywood Woodworking	CE BH 3-50: Baghouse	Cabinets	2,300 cabinets/day	03-A-595-S1
BH 7-50	BH 7-50	Dynasty Plywood Dust Collection	CE BH 7-50: Baghouse	Cabinets	50,000 acfm	15-A-029
BH 9-50	BH 9-50	Rough Mill Dust Collection North	CE BH 9-50: Baghouse	Cabinets	2,300 cabinets/day	04-A-158
BH 9-67	BH 9-67	Rough Saw Mill	CE BH 9-67: Baghouse	Cabinets	2,300 cabinets/day	03-A-593-S1

Applicable Requirements

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

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

Emission Point	Opacity⁽⁴⁾	PM_{2.5} (lb/hr)	PM₁₀ (lb/hr)	Particulate Matter	Authority for Requirement
BH 1-45	40% ⁽¹⁾	-	0.08	0.08 lb/hr., 0.1 gr/dscf ⁽⁵⁾	12-A-211-S1
BH 1-85	40% ⁽²⁾	-	2.20	2.20 lb/hr., 0.1 gr/dscf ⁽⁵⁾	89-A-091-S2
BH 2-71	40% ⁽³⁾	-	1.82	1.82 lb/hr., 0.1 gr/dscf ⁽⁵⁾	03-A-594-S2
BH 3-34	40% ⁽²⁾	-	0.50	0.50 lb/hr., 0.1 gr/dscf ⁽⁵⁾	04-A-157
BH 3-50	40% ⁽²⁾	-	1.29	1.29 lb/hr., 0.1 gr/dscf ⁽⁵⁾	03-A-595-S1
BH 7-50	40% ⁽²⁾	2.14	2.14	2.14 lb/hr, 0.1 gr/dscf ⁽⁵⁾	15-A-029
BH 9-50	40% ⁽²⁾	-	1.50	1.50 lb/hr., 0.1 gr/dscf ⁽⁵⁾	04-A-158
BH 9-67	40% ⁽²⁾		0.50	0.50 lb/hr., 0.1 gr/dscf ⁽⁵⁾	03-A-593-S1

⁽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).

⁽²⁾ 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).

⁽³⁾ If visible emissions are observed other than start-up, shut-down, or malfunction, a stack test maybe required to demonstrate compliance with the particulate standard.

Authority for Requirement

⁽⁴⁾567 IAC 23.3(2)"d"

⁽⁵⁾567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

A. The permittee shall operate and maintain the baghouse in accordance with the recommendations of the manufacturer.

B. The permittee shall maintain records on the maintenance performed on the baghouse.

Authority for Requirement: DNR Construction Permits 12-A-211-S1, 89-A-091-S2, 03-A-594-S2, 21-A-164, 04-A-157, 03-A-595-S1, 15-A-029, 04-A-158, 03-A-593-S1

NESHAP Applicability: BH 1-45 Only

These emission units are subject to 40 CFR 63 Subpart A – General Provisions and 40 CFR 63 Subpart JJ – National Emission Standards for Hazardous Air Pollutants from Wood Furniture Manufacturing Operations. Please see Appendix A of this permit for the rule text.

Authority for Requirement: DNR Construction Permits 12-A-211-S1
40 CFR 63 Subpart A
40 CFR 63 Subpart JJ
567 IAC 23.1(4)"aj"

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

Emission Point	Stack Height, (ft, from the ground)	Stack Opening, (inches)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement
BH 1-45	27	42 x 52	58,000	Ambient	Vertical Unobstructed ⁽¹⁾	12-A-211-S1
BH 1-85	33	48 (dia.)	50,000	Ambient	Vertical Unobstructed	89-A-091-S2
BH 2-71	33	58 (dia.)	50,000	70	Vertical Unobstructed ⁽¹⁾	03-A-594-S2
BH 3-34	29	58 (dia.)	34,000	Ambient	Vertical Obstructed ⁽¹⁾	04-A-157
BH 3-50	33	48 (dia.)	50,000	Ambient	Vertical Unobstructed ⁽¹⁾	03-A-595-S1
BH 7-50	29	42x52	50,000	70	Vertical	15-A-029
BH 9-50	33	58 (dia.)	50,000	Ambient	Vertical Unobstructed ⁽¹⁾	04-A-158
BH 9-67	33	58 (dia.)	67,000	Ambient	Vertical Unobstructed ⁽¹⁾	03-A-593-S1

⁽¹⁾These baghouses generally vents inside the building, but have the option to vent outside during warm weather.

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

Monitoring Requirements

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

Stack Testing: Required for (BH 1-85, BH 2-71, BH 3-34, BH 3-50, BH 7-50)¹

Pollutant – Particulate Matter (PM)

Stack Test to be Completed by – 5/1/2026

Test Method – 40 CFR 60 Appendix A Method 5 and
40 CFR 51 Appendix M Method 202

Authority for Requirement - 567 IAC 22.108(3)

Pollutant – PM₁₀

Stack Test to be Completed by – 5/1/2026

Test Method – 40 CFR 51 Appendix M 201A w/ 202⁽²⁾

Authority for Requirement - 567 IAC 22.108(3)

⁽¹⁾ According to the Department's Periodic Monitoring Guidance Document, the emission units listed above are subject to stack testing for Particulate Matter and PM₁₀. The facility may choose to perform testing on two baghouse controlled units to demonstrate compliance with Particulate Matter and PM₁₀ limits for all emission points. However, if the results of the representative stack testing exceed the Particulate Matter emission limits, then all emission points shall be considered out of compliance with their respective Particulate Matter and PM₁₀ emission limits.

⁽²⁾ Or approved alternative.

Agency Approved Operation & Maintenance Plan Required? Yes No
Required for CE's BH 1-85, BH 2-71, BH 3-34, BH 3-50, BH 7-50, BH 9-50, BH 9-67.

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No
Authority for Requirement: 567 IAC 22.108(3)

MasterBrand Cabinets – Waterloo Operations

Dust Collection – Operation & Maintenance Plan: BH 1-85, BH 2-71, BH 3-34, BH 3-50, BH 7-50, BH 9-50, BH 9-67

Weekly

- A. MAGNEHELIC READINGS
- B. CHECK OIL LEVEL IN BAG PUMP (10W-40)
- C. CHECK OIL LEVEL IN MATERIAL PUMP (10W-40)

Bi-weekly

- A. CHANGE FILTER ON MATERIAL PUMP

Monthly

- A. CHECK BAGS FOR WEAR
- B. CHECK TENSION AND CONDITION OF BELTS ON AIRLOCK (3VX670)
- C. CHECK TENSION AND CONDITION OF BELTS ON BAG PUMP (3VX500)
- D. CHECK TENSION AND CONDITION OF BELTS ON MAIN FAN (8X 5VX2000)
- E. CHECK TENSION AND CONDITION OF BELTS ON MATERIAL PUMP (5VX750)
- F. CHECK CAROUSEL GEAR BOXES
- G. CHECK TIMING OF PULSE MECHANISM
- H. CHECK CONTROL PANELS CLEAN IF NECESSARY
- I. CHECK FILTER ON BAG CLEANER AND CLEAN IF NECESSARY
- J. CHECK KNIVES IN AIR LOCK FOR CLEARANCE (.006"-.010")
- K. CHECK OIL LEVEL IN AIRLOCK GEAR BOX (85W-140)
- L. GREASE BAG PUMP
- M. GREASE MAIN FAN BEARINGS
- N. GREASE MATERIAL PUMP
- O. GREASE ROTARY AIR LOCK BEARINGS

Quarterly

- A. CHANGE OIL IN BAG PUMP (10W-40)
- B. CHANGE OIL IN MATERIAL PUMP (10W-40)
- C. GREASE CAROSEL BEARINGS

Annual

- A. CHANGE OIL IN AIR LOCK GEAR BOX (85W-140)
- B. VACUUM OUT CONTROL PANEL AND CHECK TIGHTNESS OF CONNECTIONS
- C. CHANGE OIL IN CAROUSEL GEAR BOXES (85W-140)

** All O&M records are retained with Maintenance (program D7I)

**If any issues/concerns are discovered, all operations which are linked to that specific duct collector will be shut down until resolved.

Emission Point ID Number: BH 2-61

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
BH 2-61	Woodworking Equipment – Omega Components Final Machining	CE BH 2-61: Baghouse	Cabinets	2,300 cabinets/day	13-A-316-S1

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: DNR Construction Permit 13-A-316-S1
567 IAC 23.3(2)"d"

⁽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).

Pollutant: PM₁₀

Emission Limit(s): 1.83 lb/hr

Authority for Requirement: DNR Construction Permit 13-A-316-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.83 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 13-A-316-S1
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. The owner or operator shall inspect and maintain the control equipment in accordance manufacturer's specifications.
 - i. The owner or operator shall keep a record of all maintenance and inspection activities performed on the control equipment. This record shall include, but is not limited to:
 - The date and time any inspection and/or maintenance was performed on the control equipment;
 - Any issues identified during the inspection;
 - Any issues addressed during the maintenance activities; and,

- Identification of the staff member performing the maintenance or inspection.
- B. The pressure drop across the baghouse (CE BH 2-61) shall be maintained within a range of 0.5 – 5 inches of water column.
- a. The owner or operator shall monitor and record the pressure drop across baghouse (CE BH 2-61) at least once per week. If the pressure drop is outside of the range specified in condition B the owner or operator shall record the time, date and actions taken to correct the situation, and also when the parameter is back to the specified range.

Authority for Requirement: DNR Construction Permit 13-A-316-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.): 63.5 x 51.5

Exhaust Flow Rate (scfm): 45,628

Exhaust Temperature (°F): 70

Discharge Style: Vertical obstructed

Authority for Requirement: DNR Construction Permit 13-A-316-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: CF 3-24

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
CF 3-24	Dynasty Cefla Sanding Operations	CE CF 3-24: Cartridge Filter	Cabinets	100 charges/hr	21-A-164

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: DNR Construction Permit 21-A-164
567 IAC 23.3(2)"d"

⁽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).

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.90 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 13-A-316-S1
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. The owner or operator shall inspect and maintain the control equipment in accordance manufacturer's specifications.
 - i. The owner or operator shall keep a record of all maintenance and inspection activities performed on the control equipment. This record shall include, but is not limited to:
 - The date and time any inspection and/or maintenance was performed on the control equipment;
 - Any issues identified during the inspection;
 - Any issues addressed during the maintenance activities; and,
 - Identification of the staff member performing the maintenance or inspection.
- B. The pressure drop across the cartridge filter (CE CF 3-24) shall be maintained within a range of 0.5 – 6 inches of water column.
 - a. The owner or operator shall monitor and record the pressure drop across cartridge filter (CE CF 3-24) at least once per week. If the pressure drop is outside of the

range specified in condition B the owner or operator shall record the time, date and actions taken to correct the situation, and also when the parameter is back to the specified range.

Authority for Requirement: DNR Construction Permit 21-A-164

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

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

Stack Opening, (inches, dia.): 34

Exhaust Flow Rate (scfm): 13,070

Exhaust Temperature (°F): 70

Discharge Style: Vertical unobstructed

Authority for Requirement: DNR Construction Permit 21-A-164

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: BH 4-24

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
BH 4-24	Fountainhead Dust Collection System	CE BH 4-24: Baghouse	Cabinets	2,300 cabinets/day	15-A-596-S1

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 15-A-596-S1
567 IAC 23.3(2)"d"

⁽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).

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 2.1 lb/hr

Authority for Requirement: DNR Construction Permit 15-A-596-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 15-A-596-S1
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. The owner or operator shall inspect and maintain the control equipment in accordance manufacturer's specifications.
 - ii. The owner or operator shall keep a record of all maintenance and inspection activities performed on the control equipment. This record shall include, but is not limited to:
 - The date and time any inspection and/or maintenance was performed on the control equipment;
 - Any issues identified during the inspection;
 - Any issues addressed during the maintenance activities; and,
 - Identification of the staff member performing the maintenance or inspection.

- B. The pressure drop across the baghouse (CE BH 4-24) shall be maintained within a range of 0.5 – 5 inches of water column.
 - a. The owner or operator shall monitor and record the pressure drop across baghouse (CE BH 4-24) at least once per week. If the pressure drop is outside of the range specified in condition B the owner or operator shall record the time, date and actions taken to correct the situation, and also when the parameter is back to the specified range.

Authority for Requirement: DNR Construction Permit 15-A-596-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 31.7

Stack Opening, (inches, dia.): 34

Exhaust Flow Rate (scfm): 18,321

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 15-A-596-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 7-2

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
7-2	Pump Room	NA	Finishes	NA	98-A-172

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 no applicable emission limits for this unit at this time.

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

- A. For recordkeeping and tracking purposes, any VOC emissions from this source shall be accounted for as if they were emitted from the emission source the materials were pumped to for application.
- B. Daily records of the amount and nature of the material pumped to each application point shall be kept, the recordkeeping to conform to that detailed in the relevant permits for each application point the material is pumped to.
- C. All applicable requirements of 40 CFR Part 63, Subpart JJ – National Emission Standards for Wood Furniture Manufacturing Operations shall apply.

Authority for Requirement: DNR Construction Permit 98-A-172
40 CFR 63 Subpart JJ
567 IAC 23.1(4)"aj"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 16.5

Stack Opening, (inches): 15 x 15

Exhaust Flow Rate (scfm): 2,280

Exhaust Temperature (°F): 72

Discharge Style: NA⁽¹⁾

Authority for Requirement: DNR Construction Permit 98-A-172

⁽¹⁾ This stack is equipped w/ a raincap

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: F-S

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
F-S	Facility Clean Up Solvent Usage	Solvents	NA	96-A-980-S1

Applicable Requirements

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

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

Pollutant: Volatile Organic Compounds (VOC's)

Emission Limit(s): 39.0 tons/yr.

Authority for Requirement: DNR Construction Permit 96-A-980-S1

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. This permit applies to solvents used exclusively for cleaning.
2. Daily Records must be kept which show the quantity of each solvent used for any cleanup operation. Daily logs, covering each location where cleanup solvents are used, must be available for inspection.
3. Monthly record must be kept which show the following:
 - (a) Quantity of each solvent entering the plant.
 - (b) Quantity of each solvent exiting the plant.
 - (c) Quantity of solvent used (emitted).The dates and quantities of each solvent entering and leaving the plant must be recorded.
4. If a given solvent is used for two or more purposes, the permittee must notify the department and demonstrate that the use of the solvent complies with this permit, any other applicable permits, and any state or federal regulation not involved with a permit (for whatever reason).
5. The quantities of each cleaning solvent must be tabulated weekly, monthly, and annually. Records must be rolled monthly. All records must be satisfactory for demonstrating compliance with the VOC Emission Limit above.

Authority for Requirement: DNR Construction Permit 96-A-980-S1

NESHAP:

These emission units are subject to 40 CFR 63 Subpart A – General Provisions and 40 CFR 63 Subpart JJ – National Emission Standards for Hazardous Air Pollutants from Wood Furniture Manufacturing Operations. Please see Appendix A of this permit for the rule text.

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

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: 3-9, 3-10, B-1, B-2, B-3

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
3-9	Natural Gas Boiler	Natural Gas	3.25 MMBtu/hr.	-
3-10	Natural Gas Boiler	Natural Gas	3.60 MMBtu/hr.	-
B-1	Natural Gas Boiler	Natural Gas	3 MMBtu/hr.	-
B-2	Natural Gas Boiler	Natural Gas	3 MMBtu/hr.	-
B-3	Natural Gas Boiler	Natural Gas	3 MMBtu/hr.	-

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %

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

Pollutant: Particulate Matter

Emission Limit(s): 0.6 lb/MMBtu

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

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

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

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. Records shall be kept on site for at least five years and shall be available for inspection by the Department.

NESHAP Applicability

These units are subject to the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

Authority for Requirement: 40 CFR Part 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)

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, 6200 Park Avenue, Suite 200, Des Moines, IA 50321, 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 Permitting & Standards Branch, 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 emissions inventory shall be submitted annually by March 31 with forms specified by the department documenting actual emissions for the previous calendar year.
4. The fee shall be submitted annually by July 1 with forms specified by the department.
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

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

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

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

G8. Duty to Provide Information

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

G9. General Maintenance and Repair Duties

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

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

G10. Recordkeeping Requirements for Compliance Monitoring

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

- c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

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

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

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

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

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

G13. Hazardous Release

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 725-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in *567 IAC 131.2(2)*. *567 IAC Chapter 131-State Only*

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall

be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. A variance from this subrule may be available as provided for in Iowa Code section 455B.143. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

2. Excess Emissions Reporting

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

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

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

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)*

3. **Emergency Defense for Excess Emissions.** For the purposes of this permit, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control

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

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

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

G15. Permit Deviation Reporting Requirements

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

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

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

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

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
 - a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
 - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);

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

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 or greenhouse gas generating substances 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
6200 Park Ave, Suite 200
Des Moines, IA 50321
(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:

Iowa Compliance Officer
Air Branch
Enforcement and Compliance Assurance Division
U.S. EPA Region 7
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
6200 Park Ave, Suite 200
Des Moines, IA 50321
(515) 725-8200

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

1101 Commercial Court, Suite 10
Manchester, IA 52057
(563) 927-2640

Field Office 3

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

Field Office 5

6200 Park Ave, Suite 200
Des Moines, IA 50321
(515) 725-0268

Polk County Public Works Dept.

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

Field Office 2

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

Field Office 4

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

Field Office 6

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

Linn County Public Health

Air Quality Branch
1020 6th Street SE
Cedar Rapids, IA 52401
(319) 892-6000

V. Appendix A

40 CFR 63 Subpart A – General Provisions

<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-A>

40 CFR 63 Subpart JJ - National Emission Standards for Wood Furniture Manufacturing Operations

<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-JJ>

40 CFR 63 Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-DDDDD>

Appendix B: Dry Filter Agency Operation & Maintenance Plan

1. Weekly

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

2. Record Keeping & Reporting

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

3. Quality Control

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