

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

Name of Permitted Facility: Curwood Inc.
Facility Location: 1400 E. O’Neal Street, Centerville, IA
Air Quality Operating Permit Number: 01-TV-001R2
Expiration Date: January 13, 2018
Permit Renewal Application Deadline: July 13, 2017

EIQ Number: 92-5276
Facility File Number: 04-01-002

Responsible Official

Name: Thomas Irwin
Title: Operations Manager
Mailing Address: 1400 O’Neal Street, Centerville, IA 52544
Phone #: 641-437-6250

Permit Contact Person for the Facility

Name: Mitch Cohrs
Title: Safety/Environmental Administrator
Mailing Address: 1400 O’Neal Street, Centerville, IA 52544
Phone #: 641-437-6391

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

Catharine Fitzsimmons, Chief of Air Quality Bureau

Date

Table of Contents

I. Facility Description and Equipment List	5
II. Plant - Wide Conditions	8
III. Emission Point Specific Conditions	11
Uncontrolled Presses & Ovens	11
Thermal Oxidizer	15
Film Treaters	24
Ink Mix and Storage Room	26
Photopolymer & Nyloflex Plate Making	28
Distillation Unit	31
Boilers	34
PVDC Resin Blenders	36
Maintenance Paint Booth	39
Pellet Maker	42
Extruders	44
Space Heaters	46
SafetyKleen Partswasher	48
Storage Silos	49
FINCLEAN	51
Shrink Extruders	52
IV. General Conditions	55
G1. Duty to Comply	
G2. Permit Expiration	
G3. Certification Requirement for Title V Related Documents	
G4. Annual Compliance Certification	
G5. Semi-Annual Monitoring Report	
G6. Annual Fee	
G7. Inspection of Premises, Records, Equipment, Methods and Discharges	
G8. Duty to Provide Information	
G9. General Maintenance and Repair Duties	
G10. Recordkeeping Requirements for Compliance Monitoring	
G11. Evidence used in establishing that a violation has or is occurring.	
G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification	
G13. Hazardous Release	
G14. Excess Emissions and Excess Emissions Reporting Requirements	
G15. Permit Deviation Reporting Requirements	
G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations	
G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification	
G18. Duty to Modify a Title V Permit	

- G19. Duty to Obtain Construction Permits
- G20. Asbestos
- G21. Open Burning
- G22. Acid Rain (Title IV) Emissions Allowances
- G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements
- G24. Permit Reopenings
- G25. Permit Shield
- G26. Severability
- G27. Property Rights
- G28. Transferability
- G29. Disclaimer
- G30 Notification and Reporting Requirements for Stack Tests or Monitor Certification
- G31. Prevention of Air Pollution Emergency Episodes
- G32. Contacts List

Abbreviations

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

Pollutants

PM.....particulate matter
PM₁₀.....particulate matter ten microns or less in diameter
SO₂.....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: Curwood Inc.
 Permit Number: 01-TV-001R2

Facility Description: Plastic Packaging Manufacturer (SIC 2673)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
Uncontrolled Presses & Ovens			
51	P7	Press 7 & Press Cleanup	96-A-349-S4
	P7A	Press 7 Oven	
53	P8	Press 8 & Press Cleanup	96-A-350-S4
	P8A	Press 8 Oven	
54	P9	Press 9 & Press Cleanup	96-A-351-S4
	P9A	Press 9 Oven	
56	P10BP	Press 10 & Press Cleanup	01-A-643-S2
	P10A	Press 10 Oven	
57	P11BP	Press 11 & Press Cleanup	01-A-644-S2
	P11A	Press 11 Oven	
81	P14BP	Press 14 & Press Cleanup	03-A-1207-S1
75	P15BP	Press 15 & Press Cleanup	01-A-647-S2
	P15A	Press 15 Oven	
77	P16BP	Press 16 & Press Cleanup	01-A-646-S5
	P16A	Press 16 Oven	
Controlled Sources Through EP-74			
74	P10	Press 10 Printing	01-A-641-S4
	P10A	Press 10 Oven	
	P11	Press 11 Printing	
	P11A	Press 11 Oven	
	P14	Press 14 Printing	
	P15	Press 15 Printing	
	P15A	Press 15 Oven	
	P16	Press 16 Printing	
	P16A	Press 16 Oven	
	RTO1	Oxidizer (natural gas)	
52	P7C	Press 7 Corona Treater	99-A-1053-S3
	P8C	Press 8 Corona Treater	
	P9C	Press 9 Corona Treater	
55	P10C	Press 10 Corona Treater	96-A-352-S4

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
58	P11C	Press 11 Corona Treater	93-A-376-S5
69	TRETS	Film Treater – small	00-A-1180-S3
70	TRETL	Film Treater – large	00-A-1181-S3
78	P16C	Press 16 Corona Treater	01-A-648-S2
82	P14C	Press 14 Corona Treater 1	03-A-1208
83	P14C2	Press 14 Corona Treater 2	03-A-1209
76	P15C	Press 15 Corona Treater	01-A-649-S1
63	INKMIX	Ink Mix and Storage Room	01-A-650
64	NYLOFLEX	Nyloflex plate making	96-A-577-S7
12	PLATED	Distillation unit	07-A-717-S1
65	B1	Boiler 1 (Natural Gas) 0.02 MMcf/hr	Grandfathered
	B1A	Boiler 1 (Fuel Oil) 0.13 1000 gal/hr	Grandfathered
66	B2	Boiler 2 (Natural Gas) 0.02 MMcf/hr	Grandfathered
	B2A	Boiler 2 (Fuel Oil) 0.13 1000 gal/hr	Grandfathered
71	PVDC BLEND1	PVDC Resin Blender (1)	00-A-1176-S2
	PVDC BLEND2	PVDC Resin Blender (2)	
73	PAINT	Maintenance Paint Booth	96-A-576-S3
Epf1	MUNCHY	Munchy Perflex Pellet Making	Not applicable
Epf2	PEEXB1	Polyethylene Extruder B1	Grandfathered
	PEEXB2	Polyethylene Extruder B2	
	PEEXB3	Polyethylene Extruder B3	
	PEEXB5	Polyethylene Extruder B5	
	PEEXB6	Polyethylene Extruder B6	
	PEEXB9	Polyethylene Extruder B9	
Epf3	COEXB7	PE/PVDC Co-Extruder B7	Grandfathered
	COEXB8	PE/PVDC Co-Extruder B8	
	COEXB10	PE/PVDC Co-Extruder B10	
	COEXB11	PE/PVDC Co-Extruder B11	
	COEXB12	PE/PVDC Co-Extruder B12	
	COEXB13	PE/PVDC Co-Extruder B13	
	COEXB14	PE/PVDC Co-Extruder B14	
	COEXB15	PE/PVDC Co-Extruder B15	
	COEXB16	PE/PVDC Co-Extruder B16	
	COEXB17	PE/PVDC Co-Extruder B17	
	COEXB18	PE/PVDC Co-Extruder B18	

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
Epf4	33Heat1	Space Heater 1 (2.376MMBtu/hr)	Exempt
	34Heat1	Space Heater 2 (0.25 MMBtu/hr)	
	5AHeat1	Space Heater 3 (0.13 MMBtu/hr)	
	5AHeat2	Space Heater 4 (0.13 MMBtu/hr)	
	5Heat1	Space Heater 5 (0.30 MMBtu/hr)	
	5Heat2	Space Heater 6 (0.30 MMBtu/hr)	
	5Heat3	Space Heater 7 (0.30 MMBtu/hr)	
	5Heat4	Space Heater 8 (0.30 MMBtu/hr)	
	7AHeat1	Space Heater 9 (2 burners at 0.40 MMBtu/hr each)	
Epf5	PRTWSH	SafetyKleen Partswasher	Not applicable
FS4	PESILO4	Polyethylene Storage Silo 4	03-A-1210
FS5	PESILO5	Polyethylene Storage Silo 5	03-A-1211
FS6	PESILO6	Polyethylene Storage Silo 6	03-A-1212
FS7	PESILO7	Polyethylene Storage Silo 7	03-A-1213
85	FINCLEAN	Ink Staging & Parts Cleaning	Grandfathered
EP-F8	COEXB19 COEXB20 COEXB21 COEXB22 COEXB23	Shrink Extruders	12-A-522

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
FUELOIL	No. 2 Fuel Oil Storage (1000 gal)
POWD	Powdering
POWDEXT	Extrusion Area Dust Collection
POWDFINISH	Finishing Area Dust Collection
POWDPRESS	Press Area Dust Collection
PESILO1	Polyethylene Storage Silo 1
PESILO2	Polyethylene Storage Silo 2
PESILO3	Polyethylene Storage Silo 3
BERINGER	Beringer Oven for Screen Packs
GRUENBERG	Gruenberg Test Oven
LABHOOD	Lab Test Hood

II. Plant-Wide Conditions

Facility Name: Curwood, Inc.
Permit Number: 01-TV-001R2

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

Permit Duration

The term of this permit is: 5 years
Commencing on: January 14, 2013
Ending on: January 13, 2018

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

Plant-Wide Emission Limits

The atmospheric emissions from the plant as a whole shall not exceed the following:

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 249 TPY
Authority for Requirement: Limit Requested by Facility⁽¹⁾
567 IAC 22.108(14)

⁽¹⁾ Letter from Steven E. McDowell, Curwood Inc. Responsible Official, dated February 08, 2007, and received February 09, 2007.

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 240 TPY⁽²⁾
Authority for Requirement: Iowa DNR Construction Permits 07-A-717-S1, 96-A-577-S7, 96-A-349-S4, 96-A-350-S4, 96-A-351-S4, 01-A-643-S2, 01-A-644-S2, 01-A-646-S5, 03-A-1207-S1, 01-A-647-S2, 01-A-641-S4, 12-A-522

⁽²⁾ Total VOC emissions from all printing inks, coatings and solvents used in all printing and plate making operations at this facility shall not exceed 240 tons per twelve-month period.

Operating Condition Monitoring

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

- A. A listing of all sources that emit VOCs.

- B. A daily log showing all materials (paint, thinners, solvents, inks, glues, etc.) used daily by the facility, the amount of material used, and the VOC content of those materials. Included in the log shall be copies of all purchasing records for all materials and the corresponding Material Safety Data Sheets (MSDS).

- C. The owner or operator shall determine the annual facility-wide VOC emissions. The owner or operator shall calculate a rolling twelve-month total for VOC emissions at the facility (Plant Number: 04-01-002) until the VOC emissions exceed 180.0 tons per year. At this point the owner or operator shall immediately begin keeping 365-day rolling total of the VOC emissions from the entire facility. Calculation requirements will revert back to a monthly basis if the 365-day rolling total of VOC is returned to below 180.0 tons.

- D. Hazardous Waste Manifests shall be kept for any credits that the facility wants to take on VOCs that are not emitted into the air.

Authority for Requirement: 567 IAC 22.108(14)

Pollutant: Single HAP (facility-wide)

Emission Limits: 9.4 tpy

Authority for Requirement: Iowa DNR Construction Permit 01-A-641-S4
 Iowa DNR Construction Permit 01-A-646-S5
 Iowa DNR Construction Permit 96-A-577-S7
 Iowa DNR Construction Permit 12-A-522

Pollutant: Total HAP (facility-wide)

Emission Limits: 24.4 tpy

Authority for Requirement: Iowa DNR Construction Permit 01-A-641-S4
 Iowa DNR Construction Permit 01-A-646-S5
 Iowa DNR Construction Permit 96-A-577-S7
 Iowa DNR Construction Permit 12-A-522

Emission Limits

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

Opacity (visible emissions): 40% opacity

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

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

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

Particulate Matter:

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

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

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

Fugitive Dust: Attainment and Unclassified Areas - 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"

III. Emission Point-Specific Conditions

Facility Name: Curwood Inc.
 Permit Number: 01-TV-001R2

Emission Point ID Number: See Table: Uncontrolled Presses & Ovens

Associated Equipment

Associated Emission Unit ID Number: See Table: Uncontrolled Presses & Ovens

Table: Uncontrolled Presses & Ovens

Emission Point Number	Associated Emission Unit Number	Associated Emission Unit Description	Construction Permit Number	Emission Unit Design Rate / Raw Material
51	P7	Press 7 & Press Cleanup	96-A-349-S4	193 lbs ink & solvent/hr
	P7A	Press 7 Oven		0.9 MMBtu/hr. natural gas
53	P8	Press 8 & Press Cleanup	96-A-350-S4	91.40 lbs ink & solvent/hr
	P8A	Press 8 Oven		0.8 MMBtu/hr. natural gas
54	P9	Press 9 & Press Cleanup	96-A-351-S4	91.40 lbs ink & solvent/hr
	P9A	Press 9 Oven		0.8 MMBtu/hr. natural gas
56	P10BP	Press 10 & Press Cleanup	01-A-643-S2	193 lbs ink & solvent/hr
	P10A	Press 10 Oven		1.2 MMBtu/hr. natural gas
57	P11BP	Press 11 & Press Cleanup	01-A-644-S2	213.30 lbs ink & solvent/hr
	P11A	Press 11 Oven		2.0 MMBtu/hr. natural gas
81	P14BP	Press 14 & Press Cleanup	03-A-1207-S1	339.20 lbs ink & solvent/hr
75	P15BP	Press 15 & Press Cleanup	01-A-647-S2	142.20 lbs ink & solvent/hr
	P15A	Press 15 Oven		0.8 MMBtu/hr. natural gas
77	P16BP	Press 16 & Press Cleanup	01-A-646-S5	142.20 lbs ink & solvent/hr
	P16A	Press 16 Oven		0.8 MMBtu/hr. natural gas

Press 14 Oven is electric and is therefore not included in the Title V Operating Permit

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permits in Table 1: Uncontrolled Presses & Ovens
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permits in Table 1: Uncontrolled Presses & Ovens
567 IAC 23.3(2)"a"

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): See Plant Wide Conditions

Authority for Requirement: See Plant Wide Conditions

Pollutant: Single HAP (facility-wide)

Emission Limit(s): 9.4 tpy

Authority for Requirement: Iowa DNR Construction Permit 01-A-646-S5

Pollutant: Total HAP (facility-wide)

Emission Limit(s): 24.4 tpy

Authority for Requirement: Iowa DNR Construction Permit 01-A-646-S5

Operational Limits & Requirements

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

Process throughput:

1. Total VOC emissions from all printing inks, coatings and solvents used in all printing and plate making operations at this facility shall not exceed 240.0 tons per twelve-month period.
2. Single and total HAP emissions from this facility shall not exceed 9.4 and 24.4 tons per twelve-month period respectfully.

Authority for Requirement: Iowa DNR Construction Permit 01-A-646-S5

Reporting & Record keeping:

All records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable operating limits. Records shall be legible and maintained in an orderly manner.

The following applies to all presses listed in the Table: Uncontrolled Presses & Ovens

1. The owner or operator shall maintain daily records that show the identity, quantity, single and total HAP content and VOC content of each printing ink, coating and solvent used per process.
2. The owner or operator may take credit for any waste HAP or VOC shipped off-site. The owner or operator shall record the amount of waste shipped offsite. Based on the analysis of representative samples (as defined in 40 CFR 260.10) of the waste sent off-site the owner or operator may calculate an average twelve-month rolling HAP or VOC credit for each container of waste generated. This waste HAP or VOC may be subtracted from the rolling total of HAP or VOC used for the printing and plate making operations on the date the waste is shipped off-site.
3. The owner or operator shall record the VOC emissions from these processes or by-pass stacks each month. The owner or operator shall calculate a rolling twelve-month total for VOC emissions from all printing and plate making operations at the facility (Plant Number: 04-01-002) until the VOC emissions exceed 180.0 tons per year. At this point the owner or operator shall immediately begin keeping 365-day rolling total of the VOC emissions from this process. Calculation requirements will revert back to a monthly basis if the 365-day rolling total of VOC is returned to below 180.0 tons.
4. The owner or operator shall record the single and total HAP emissions from these processes or bypass stacks each month. The owner or operator shall calculate a rolling twelve-month total for single and total HAP emissions from all printing and plate making operations at the facility until the single HAP emissions exceed 7.0 tons per year or the total HAP emissions exceed 18.0 tons per year. At this point the owner or operator shall immediately begin keeping 365-day rolling total of the HAP emissions from this process. Calculation requirements will revert back to a monthly basis if the 365-day rolling total of HAPs is returned to below 7.0 tons for single and 18.0 tons for total.

Authority for Requirements: Iowa DNR Construction Permit 01-A-646-S5

The following applies to Presses 10, 11, 14, 15 and 16

- When the owner or operator is applying solvent based inks or coatings on these processes the thermal oxidizer should be in operation and the captured VOC and HAP emissions vented through the thermal oxidizer. In the event of accident, malfunction or upset conditions that prevents the thermal oxidizer from operating, or whenever water based inks or coatings are being applied, then emissions from these processes may be emitted via the bypass stacks. All VOC and HAP emissions from the bypass stacks shall be accounted for.

Authority for Requirements: Iowa DNR Construction Permit 01-A-646-S5

Emission Point Characteristics

These emission points shall conform to the conditions listed in the table below.

Emission Point #	Stack Height (feet)	Stack Opening (inches)	Stack Exhaust Flow Rate	Stack Temperature (°F)	Discharge Style	Authority For Requirement
51	50	18	6100 (scfm)	110	Vertical unobstructed	96-A-349-S4
53	50	18	3100 (scfm)	110	Vertical unobstructed	96-A-350-S4
54	50	13	2300 (scfm)	110	Vertical unobstructed	96-A-351-S4
56	42	16 x 16	4600 (scfm)	110	Vertical unobstructed	01-A-643-S2
57	42	16 x 16	4600 (scfm)	110	Vertical unobstructed	01-A-644-S2
81	42	16 x 16	4600 (scfm)	110	Vertical obstructed	03-A-1207-S1
75	42	14 x 14	1900 (scfm)	110	Vertical obstructed	01-A-647-S2
77	42	20 x 20	2000 (scfm)	110	Vertical obstructed	01-A-646-S5

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 74

Associated Equipment

Associated Emission Unit ID Numbers: Presses 10, 11, 14, 15 and 16
Ovens: 10A, 11A, 15A and 16A
Thermal oxidizer: RTO1
Emissions Control Equipment ID Number: RTO1
Emissions Control Equipment Description: Oxidizer 1

Emission Unit vented through this Emission Point: Presses 10, 11, 14, 15 and 16
Ovens: 10A, 11A, 15A and 16A
Thermal oxidizer: RTO1

Emission Unit Description: Presses and ovens vented through the thermal oxidizer
Raw Material/Fuel: Natural gas (RTO1 fuel)
Rated Capacity: 4.87 MMBtu/hr (RTO1 capacity)

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permit 01-A-641-S4
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf, 2.1 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 01-A-641-S4
567 IAC 23.3(2)"a"

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): See Plant Wide Conditions

Authority for Requirement: See Plant Wide Conditions

Pollutant: Single HAP (facility-wide)

Emission Limits: 9.4 tpy

Authority for Requirement: Iowa DNR Construction Permit 01-A-641-S4

Pollutant: Total HAP (facility-wide)

Emission Limits: 24.4 tpy

Authority for Requirement: Iowa DNR Construction Permit 01-A-641-S4

Operational Limits & Requirements

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

Process throughput:

1. Total VOC emissions from all printing inks, coatings and solvents used in all printing and plate making operations at this facility shall not exceed 240.0 tons per twelve-month period.
2. Single and total HAP emissions from this facility shall not exceed 9.4 and 24.4 tons per twelve-month period respectively.
3. This oxidizer shall operate at all times presses 10, 11, 14, 15 and 16 are operating. In the event of accident, malfunction or upset conditions that prevents the thermal oxidizer from operating, or whenever water based inks or coatings are being applied on a connected process, then emissions from the connected process may be emitted via the associated bypass stack.
4. The temperature in the combustion zone of this thermal oxidizer shall be maintained between 1,400 °F and 1,950 °F whenever process exhaust is being directed to the oxidizer.
5. All control equipment shall be maintained according to the manufacturer's specifications.

Reporting & Record keeping:

All records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable operating limits. Records shall be legible and maintained in an orderly manner.

1. The owner or operator shall maintain daily records that show the identity, quantity, single and total HAP content and VOC content of each printing ink, coating and solvent used per process.
2. The owner or operator may take credit for any waste HAP or VOC shipped off-site. The owner or operator shall record the amount of waste shipped offsite. Based on the analysis of representative samples (as defined in 40 CFR 260.10) of the waste sent off-site the owner or operator may calculate an average twelve-month rolling HAP or VOC credit for each container of waste generated. This waste HAP or VOC may be subtracted from the rolling total of HAP or VOC used for the printing and plate making operations on the date the waste is shipped off-site.

3. The owner or operator shall record the VOC emissions from this emission point each month. The owner or operator shall use an overall control efficiency of 60% for presses 10 and 11 and an overall control efficiency of 81% for presses 14, 15 and 16. A different overall control efficiency may be used if that overall control efficiency has been verified by stack testing data that was approved by the Department. The owner or operator shall calculate a rolling twelve-month total for VOC emissions from all printing and plate making operations at the facility (Plant Number: 04-01-002) until the VOC emissions exceed 180.0 tons per year. At this point the owner or operator shall immediately begin keeping 365-day rolling total of the VOC emissions from this process. Calculation requirements will revert back to a monthly basis if the 365-day rolling total of VOC is returned to below 180.0 tons.
4. The owner or operator shall record the single and total HAP emissions from this emission point each month. The owner or operator shall use an overall control efficiency of 60% for presses 10 and 11 and an overall control efficiency of 81% for presses 14, 15 and 16. A different overall control efficiency may be used if that overall control efficiency has been verified by stack testing data that was approved by the Department. The owner or operator shall calculate a rolling twelve-month total for single and total HAP emissions from all printing and plate making operations at the facility (Plant Number: 04-01-002) until the single HAP emissions exceed 7.0 tons per year or the total HAP emissions exceed 18.0 tons per year. At this point the owner or operator shall immediately begin keeping 365-day rolling total of the HAP emissions from this process. Calculation requirements will revert back to a monthly basis if the 365-day rolling total of HAPs is returning below 7.0 tons for single and 18.0 tons for total.
5. Whenever process exhaust is being directed to the oxidizer, the owner or operator shall record the combustion zone temperature of the thermal oxidizer at least once every fifteen minutes.
6. The owner or operator shall maintain a record of all inspections of the control equipment. The owner or operator shall document the results of the inspections and note any repairs that were the result of the inspections.

Authority for Requirement: Iowa DNR Construction Permit 01-A-641-S4

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 50

Stack Opening (inches, diameter): 42

Stack Exhaust Flow Rate (scfm): 25,000

Stack Temperature (°F): 225

Discharge Style: Vertical unobstructed

Authority for Requirement: Iowa DNR Construction Permit 01-A-641-S4

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

The CAM plan for the controlled printing presses includes capture efficiency and controlling emissions through the use of a thermal oxidizer. The CAM plan begins on the following page of this permit. The CAM plan requirement is not based on the emissions from the thermal oxidizer. The CAM plan is in effect to assure the capture efficiency of the system and the destruction efficiency of the thermal oxidizer is operating in a manner to meet the federally enforceable VOC emission limitations imposed upon this facility.

Authority for Requirement: 567 IAC 22.108(3)

Compliance Assurance Monitoring (CAM) Plans

I. Background

A. Emission Units

Description & Identification:

Curwood, Inc. - Centerville operates multiple flexographic printing presses. To limit facility volatile organic compound (VOC) emissions below the 250 ton per year PSD major source threshold, many of the presses applying VOC containing inks/coatings are vented to a regenerative thermal oxidizer. The units in the following table are vented through the thermal oxidizer.

Table 1

EP	EU	EU Description
EP 74	P10	Press 10
	P10A	Oven 10
	P11	Press 11
	P11A	Oven 11
	P14	Press 14
	P15	Press 15
	P15A	Oven 15
	P16	Press 16
	P16A	Oven 16

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation No.: Various Construction Permits (See Plant Wide Conditions)

Regulated pollutant: VOC

Emission limit: 240 tpy

Regulation No.: Iowa DNR Construction Permit 01-A-641-S4

Regulated pollutant: VOC and HAP

Applicable Regulation: The owner or operator shall achieve a minimum overall control efficiency of 60% for presses 10 and 11 and a minimum overall control efficiency of 81% for presses 14, 15 and 16. A different overall control efficiency may be used if that overall control efficiency has been verified by stack testing data that was approved by the Department.

C. Capture and Control Equipment

Capture System: All the presses at this facility are unenclosed presses. These presses are designed by the manufacturer with a capture system to operate under negative pressure.

Control Technology: Presses 10, 11, 14, 15 and 16 are vented through the Regenerative Thermal Oxidizer or the bypass if necessary.

II. Monitoring Approach

The key elements of the monitoring approach, including the indicators to be monitored, indicator ranges, and performance criteria are presented in Table A, Capturing Emissions and Table B, Controlling Emissions - Regenerative Thermal Oxidizer.

Table A – Capturing Emissions

	Indicator #1	Indicator #2	Indicator # 3
I. Indicator	Work Practice	Work Practice	Work Practice
Measurement Approach	Inspect the operational condition of the control device bypass damper and the integrity of the exhaust system from the process to the control device.	Inspect operational condition of all interlocks including: bypass damper position.	Use a smoke stick or equivalent approach to assure the dryer is negative with respect to the surrounding atmosphere.
II. Indicator Range	An excursion is identified as any finding that the integrity of the bypass damper or the exhaust system ductwork has been compromised.	An excursion is identified as any finding that any interlock is inoperative.	General overall flow of smoke should be into the dryer web slot or application capture area.
Corrective Action	Each excursion triggers an assessment of the problem, corrective action and a reporting requirement.	Any excursion shall require that the process be immediately shut down and remain down until the problem can be corrected. Each excursion triggers an assessment of the problem, corrective action and a reporting requirement.	Process can not be operated until negative flow into the dryer system or application area is demonstrated. Each excursion triggers an assessment of the problem, corrective action and a reporting requirement.

	Indicator #1	Indicator #2	Indicator # 3
III. Performance Criteria			
A. Data Representativeness	Properly positioned dampers and leak-free ductwork will assure that all of the normally captured exhaust will reach the control device. Inspections will identify problems.	Properly operating interlocks will assure that the process will be shut down if the bypass damper is open to atmosphere.	Monitoring approach will assure the dryer is set to properly contain supply air and the airflow is into the application capture area.
B. Verification of Operational Status	Inspection records.	Inspection records.	Not applicable.
C. QA/QC Practices and Criteria	Not applicable.	Not applicable.	Not applicable.
D. Monitoring Frequency	Semiannually	Annually	Whenever the location of a between color dryer is disrupted the system shall be evaluated for needed adjustments. Adjustments may not be necessary.
Data Collection Procedure	Record results of inspections and observations.	Record results of inspections and observations.	Not applicable.
Averaging Period	Not applicable.	Not applicable.	Not applicable.
E. Recordkeeping	Maintain for a period of 5 years records of inspections and of corrective actions taken in response to excursions.	Maintain for a period of 5 years records of inspections and of corrective actions taken in response to excursions.	Maintain for a period of 5 years records of inspections and of corrective actions taken in response to excursions.
F. Reporting	Number, duration, cause of any excursion and the corrective action taken.	Number, duration, cause of any excursion and the corrective action taken.	Number, duration, cause of any excursion and the corrective action taken.
Frequency	Semiannually.	Annually.	Semiannually.

Table B – Controlling Emissions - Regenerative Thermal Oxidizer

	Indicator #1	Indicator #2	Indicator #3
I. Indicator	Oxidizer combustion zone temperature.	Work practice/inspection.	Performance test
Measurement Approach	Continuously monitor the operating temperature of the oxidizer combustion zone.	Inspect internal and external structural integrity of oxidizer to ensure proper operation. ¹	Conduct emissions test to demonstrate compliance with permitted destruction efficiency.
II. Indicator Range	An excursion is identified as a temperature measurement less than 1400 degrees or greater than 1950 degrees when it is controlling process exhaust.	An excursion is identified as any finding that the structural integrity of the oxidizer has been jeopardized and it no longer operates as designed.	An excursion is identified as any finding that the oxidizer does not meet the permitted destruction efficiency.
Corrective Action	Each excursion triggers an assessment of the problem, corrective action and a reporting requirement.	Each excursion triggers an assessment of the problem, corrective action and a reporting requirement.	Each excursion triggers an assessment of the problem, corrective action and a reporting requirement.
III. Performance Criteria			
A. Data Representativeness	Any temperature-monitoring device employed to measure the oxidizer combustion zone temperature shall be accurate to within 0.5% of temperature measured or $\pm 5^{\circ}\text{F}$, whichever is greater.	Inspections of the oxidizer system will identify problems.	A test protocol shall be prepared and approved by the IDNR prior to conducting the performance test.
B. Verification of Operational Status	Temperatures recorded on chart paper or electronic media.	Inspection records.	Not applicable.
C. QA/QC Practices and Criteria	Validation of temperature system conducted annually. Acceptance criteria $\pm 20\text{F}$.	Not applicable.	EPA test methods approved in protocol.
D. Monitoring Frequency	Measured continuously	<ul style="list-style-type: none"> •External inspection – monthly. •Internal inspection – annually.¹ 	Once within 2 years of issuance of permit.
Data Collection Procedure	Recorded at least every 15-minutes on a chart or electronic media.	Record results of inspections and observations.	Per approved test method.
Averaging Period	Not applicable.	Not applicable.	Not applicable.

	Indicator #1	Indicator #2	Indicator #3
E. Record Keeping	Maintain for a period of 5 years records of chart recorder paper or electronic media and corrective actions taken in response to excursions.	Maintain for a period of 5 years records of inspections and corrective actions taken in response to excursions.	Maintain a copy of the test report for 5 years or until another test is conducted. Maintain records of corrective actions taken in response to excursions.
F. Reporting	Number, duration, cause of any excursion and the corrective action taken.	Number, duration, cause of any excursion and the corrective action taken.	Submit test protocol and notification of testing to IDNR 30 days prior to test date. Submit test report 45 days after conducting a performance test.
Frequency	Semiannually.	Semiannually.	For each performance test conducted.

¹Internal inspection of regenerative units should include annual assessment of valves for leakage: this assessment may be comprised of an internal inspection, or other method of assessment for leakage.

Emission Point ID Number: See Table: Film Treaters

Associated Equipment

Associated Emission Unit ID Number: See Table: Film Treaters

Table Film Treaters

Emission Point Number	Associated Emission Unit Number	Associated Emission Unit Description	Construction Permit Number	Emission Unit Design Rate / Raw Material
52	P7C	Press 7 Corona Treater	99-A-1053-S3	5.0 kW/hr. Electricity
	P8C	Press 8 Corona Treater	99-A-1053-S3	4.2 kW/hr. Electricity
	P9C	Press 9 Corona Treater	99-A-1053-S3	4.2 kW/hr. Electricity
55	P10C	Press 10 Corona Treater	96-A-352-S4	4.0 kW/hr. Electricity
58	P11C	Press 11 Corona Treater	93-A-376-S5	4.0 kW/hr. Electricity
69	TRETS	Film Treater – Small	00-A-1180-S3	6.0 kW/hr. Electricity
70	TRETL	Film Treater – Large	00-A-1181-S3	6.0 kW/hr. Electricity
78	P16C	Press 16 Corona Treater	01-A-648-S2	2.5 kW/hr. Electricity
82	P14C	Press 14 Corona Treater 1	03-A-1208	4.0 kW/hr. Electricity
83	P14C2	Press 14 Corona Treater 2	03-A-1209	3.0 kW/hr. Electricity
76	P15C	Press 15 Corona Treater	01-A-649-S1	2.5 kW/hr. Electricity

Control Equipment: Ozone Decomposer (CE 03DECOMPL) controls ozone emissions from Film Treater – Large (TRETL) and exhausts through EP70

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.

None at this time.

Operational Limits & Requirements

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

None at this time.

Emission Point Characteristics

These emission points shall conform to the conditions listed in the table below.

Emission Point #	Stack Height (feet)	Stack Diameter (inches)	Stack Exhaust Flow Rate	Stack Temperature (°F)	Discharge Style	Authority For Requirement
52	50	15	3600 (scfm)	85	Vertical unobstructed	99-A-1053-S3
55	47	8	1000 (scfm)	85	Vertical unobstructed	96-A-352-S4
58	47	8	1000 (scfm)	85	Vertical unobstructed	93-A-376-S5
69	47	18	2400 (scfm)	75	Vertical unobstructed	00-A-1180-S3
70	56	12	2400 (scfm)	75	Vertical unobstructed	00-A-1181-S3
78	48	8	250 (scfm)	85	Vertical unobstructed	01-A-648-S2
82	47	10	800 (scfm)	85	Vertical unobstructed	03-A-1208
83	47	8	500 (scfm)	85	Vertical unobstructed	03-A-1209
76	48	8	250 (acfm)	85	Vertical unobstructed	01-A-649-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 63

Associated Equipment

Associated Emission Unit ID Numbers: INKMIX

Emission Unit vented through this Emission Point: INKMIX

Emission Unit Description: Ink mix and storage room

Raw Material/Fuel: Ink

Rated Capacity: 0.276 tons/hr

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 %

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

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

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

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): See Plant Wide Conditions

Authority for Requirement: See Plant Wide Conditions

Operational Limits & Requirements

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

Reporting & Record keeping:

All records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable operating limits. Records shall be legible and maintained in an orderly manner.

1. See Section II. Plant-Wide Conditions, Operating Condition Monitoring
Authority for Requirement: 567 IAC 22.108(14)

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 48

Stack Opening (inches, diameter): 22

Stack Exhaust Flow Rate (scfm): 7000

Stack Temperature (°F): Ambient

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

Authority for Requirement: Iowa DNR Construction Permit 01-A-650

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 64

Associated Equipment

Associated Emission Unit ID Numbers: NYLOFLEX Plate Making

Emission Unit vented through this Emission Point: NYLOFLEX Plate Making

Emission Unit Description: Nyloflex Plate Making

Raw Material/Fuel: Washout solvent

Rated Capacity: 256 square feet/hr

Applicable Requirements

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

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

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): See Plant Wide Conditions

Authority for Requirement: See Plant Wide Conditions

Pollutant: Single HAP (facility-wide)

Emission Limit(s): 9.4 tpy

Authority for Requirement: Iowa DNR Construction Permit 96-A-577-S7

Pollutant: Total HAP (facility-wide)

Emission Limit(s): 24.4 tpy

Authority for Requirement: Iowa DNR Construction Permit 96-A-577-S7

Operational Limits & Requirements

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

Process throughput:

1. Total VOC emissions from all printing inks, coatings and solvents used in all printing and plate making operations at this facility shall not exceed 240.0 tons per twelve-month period.
2. Single and total HAP emissions from this facility shall not exceed 9.4 and 24.4 tons per twelve-month period respectively.

Reporting & Record keeping:

All records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable operating limits. Records shall be legible and maintained in an orderly manner.

1. The owner or operator shall maintain daily records that show the identity, quantity and VOC content of each printing ink, coating and solvent used per process.
2. The owner or operator may take credit for any waste VOC shipped off-site. The owner or operator shall record the amount of waste shipped offsite. Based on the analysis of representative samples (as defined in 40 CFR 260.10) of the waste sent off-site the owner or operator may calculate an average twelve-month rolling VOC credit for each container of waste generated. This waste VOC may be subtracted from the rolling total of VOC used for the printing and plate making operations on the date the waste is shipped off-site.
3. The owner or operator shall record the VOC emissions from this process each month. The owner or operator shall calculate a rolling twelve-month total for VOC emissions from all printing and plate making operations at the facility (Plant Number: 04-01-002) until the VOC emissions exceed 180.0 tons per year. At this point the owner or operator shall immediately begin keeping 365-day rolling total of the VOC emissions from this process. Calculation requirements will revert back to a monthly basis if the 365-day rolling total of VOC is returned to below 180.0 tons.
4. The owner or operator shall record the single and total HAP emissions from these emission units (EU NYLOFLEX) each month. The owner or operator shall calculate a rolling twelve-month total for single and total HAP emissions from all printing and plate making operations at the facility (Plant Number: 04-01-002) until the single HAP emissions exceed 7.0 tons per year or the total HAP emissions exceed 18.0 tons per year. At this point the owner or operator shall immediately begin keeping 365-day rolling total of the HAP emissions from this process. Calculation requirements will revert back to a monthly basis if the 365-day rolling total of HAPs is returned to below 7.0 tons for single and 18.0 tons for total.

Authority for Requirement: Iowa DNR Construction Permit 96-A-577-S7

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet from ground): 30.5

Stack Opening (inches, diameter): 16

Stack Exhaust Flow Rate (scfm): 7,400

Stack Temperature (°F): 95

Discharge Style: Vertical, Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 96-A-577-S7

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 12

Associated Equipment

Associated Emission Unit ID Numbers: PLATED

Emission Unit vented through this Emission Point: PLATED

Emission Unit Description: Distillation Unit

Raw Material/Fuel: Solvent

Rated Capacity: 55.20 square feet/hr

Applicable Requirements

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

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

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): See Plant Wide Conditions

Authority for Requirement: See Plant Wide Conditions

Pollutant: Single HAP (facility-wide)

Emission Limit(s): 9.4 tpy

Authority for Requirement: Iowa DNR Construction Permit 07-A-717-S1

Pollutant: Total HAP (facility-wide)

Emission Limit(s): 24.4 tpy

Authority for Requirement: Iowa DNR Construction Permit 07-A-717-S1

Operational Limits & Requirements

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

Process throughput:

1. Total VOC emissions from all printing inks, coatings and solvents used in all printing and plate making operations at this facility (Plant Number: 04-01-002) shall not exceed 240.0 tons per twelve-month period.
2. Single and total HAP emissions from this facility shall not exceed 9.4 and 24.4 tons per twelve-month period respectively.

Reporting & Record keeping:

All records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable operating limits. Records shall be legible and maintained in an orderly manner.

1. The owner or operator shall maintain daily records that show the identity, quantity and VOC content of each printing ink, coating and solvent used per process.
2. The owner or operator may take credit for any waste VOC shipped off-site. The owner or operator shall record the amount of waste shipped offsite. Based on the analysis of representative samples (as defined in 40 CFR 260.10) of the waste sent off-site the owner or operator may calculate an average twelve-month rolling VOC credit for each container of waste generated. This waste VOC may be subtracted from the rolling total of VOC used for the printing and plate making operations on the date the waste is shipped off-site.
3. The owner or operator shall record the VOC emissions from this process each month. The owner or operator shall calculate a rolling twelve-month total for VOC emissions from all printing and plate making operations at the facility (Plant Number: 04-01-002) until the VOC emissions exceed 180.0 tons per year. At this point the owner or operator shall immediately begin keeping 365-day rolling total of the VOC emissions from this process. Calculation requirements will revert back to a monthly basis if the 365-day rolling total of VOC is returned to below 180.0 tons.
4. The owner or operator shall record the single and total HAP emissions from this emission unit (EU PLATED) each month. The owner or operator shall calculate a rolling twelve-month total for single and total HAP emissions from all printing and plate making operations at the facility (Plant Number: 04-01-002) until the single HAP emissions exceed 7.0 tons per year or the total HAP emissions exceed 18.0 tons per year. At this point the owner or operator shall immediately begin keeping 365-day rolling total of the HAP emissions from this process. Calculation requirements will revert back to a monthly basis if the 365-day rolling total of HAPs is returned to below 7.0 tons for single and 18.0 tons for total.

Authority for Requirement: Iowa DNR Construction Permit 07-A-717-S1

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet from ground): 44.0

Stack Opening (inches, diameter): 8

Stack Exhaust Flow Rate (scfm): 400

Stack Temperature (°F): 85

Discharge Style: Vertical, Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 07-A-717-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: See Table - BOILERS

Associated Equipment

Associated Emission Unit ID Number: See Table: BOILERS

Table: BOILERS

Emission Point Number	Associated Emission Unit Number	Associated Emission Unit Description	Emission Unit Design Rate / Raw Material
65	B1	Boiler 1 Natural Gas	18.7 MMBtu/hr from Natural Gas
65	B1a	Boiler 1 Fuel Oil	18.7 MMBtu/hr from Distillate Fuel
66	B2	Boiler 2 Natural Gas	18.7 MMBtu/hr from Natural Gas
66	B2a	Boiler 2 Fuel Oil	18.7 MMBtu/hr from Distillate Fuel

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limits: 40%

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

Pollutant: Particulate Matter

Emission Limits: 0.8 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"(1)

Pollutant: Sulfur Dioxide (SO₂) (using Distillate Fuel)

Emission Limit(s): 2.5 lb/MMBtu

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

Pollutant: Sulfur Dioxide (SO₂) (using Natural Gas)

Emission Limit(s): 500 ppmv

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

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): See Plant Wide Conditions

Authority for Requirement: See Plant Wide Conditions

Operational Limits & Requirements

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

Process throughput:

1. No person shall allow, cause or permit the combustion of number 1 or number 2 fuel oil exceeding a sulfur content of 0.5 percent by weight.

Authority for Requirement: 567 IAC 23.3(3)"b"(1)

Reporting & Record keeping:

All records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable operating limits. Records shall be legible and maintained in an orderly manner.

1. The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.

Authority for Requirement: 567 IAC 22.108(3)

2. See section II. Plant-Wide Conditions, Operating Condition Monitoring

Authority for Requirement: 567 IAC 22.108(14)

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: 71

Associated Equipment

Associated Emission Unit ID Numbers: PVDCBLEND1, PVDCBLEND2
Emissions Control Equipment ID Number: PVDCFLTR
Emissions Control Equipment Description: Dry filter panel

Emission Unit vented through this Emission Point: PVDCBLEND1
Emission Unit Description: PVDC Resin Blender (1)
Raw Material/Fuel: PVDC Resin
Rated Capacity: 691 lb/hr

Emission Unit vented through this Emission Point: PVDCBLEND2
Emission Unit Description: PVDC Resin Blender (2)
Raw Material/Fuel: PVDC Resin
Rated Capacity: 691 lb/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu/hr, % 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: Iowa DNR Construction Permit 00-A-1176-S2
567 IAC 23.3(2)"d"

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

Pollutant: PM-10

Emission Limit(s): 2.0 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 00-A-1176-S2

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf, 2.0 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 00-A-1176-S2
567 IAC 23.3(2)"a"

Operational Limits & Requirements

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

Reporting & Record keeping:

None at this time.

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 36

Stack Opening (inches, diameter): 27

Stack Exhaust Flow Rate (scfm): 3100

Stack Temperature (°F): 85

Discharge Style: Vertical, Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 00-A-1176-S2

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Dry Filter Agency Operation and Maintenance Plan

Weekly

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

Record Keeping and Reporting

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

Quality Control

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 73

Associated Equipment

Associated Emission Unit ID Numbers: PAINT
Emissions Control Equipment ID Number: 1
Emissions Control Equipment Description: Fiberglass Filter Pad

Emission Unit vented through this Emission Point: PAINT
Emission Unit Description: Maintenance Paint Booth
Raw Material/Fuel: Paint
Rated Capacity: 4 Cans/hr

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

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

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: Iowa DNR Construction Permit 96-A-576-S3
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter
Emission Limit(s): 0.01 gr/dscf
Authority for Requirement: Iowa DNR Construction Permit 96-A-576-S3
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 1.0 TPY
Authority for Requirement: Iowa DNR Construction Permit 96-A-576-S3

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

Operational Limits & Requirements

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

Process throughput:

1. No more than 1800 cans of spray paint shall be used in this booth per twelve-month rolling total.

Reporting & Record keeping:

All records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable operating limits. Records shall be legible and maintained in an orderly manner.

1. Record the number of cans of spray paint used per twelve-month rolling total.

Authority for Requirement: Iowa DNR Construction Permit 96-A-576-S3

2. See Section II. Plant-Wide Conditions, Operating Condition Monitoring

Authority for Requirement: 567 IAC 22.108(14)

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet): 56

Stack Opening (inches, diameter): 16

Stack Exhaust Flow Rate (scfm): 2200

Stack Temperature (°F): Ambient

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

Authority for Requirement: Iowa DNR Construction Permit 96-A-576-S3

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Dry Filter Agency Operation and Maintenance Plan

Weekly

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

Record Keeping and Reporting

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

Quality Control

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: Epf1

Associated Equipment

Associated Emission Unit ID Numbers: MUNCHY

Emission Unit vented through this Emission Point: MUNCHY

Emission Unit Description: Pellet Maker

Raw Material/Fuel: Polyethylene Waste

Rated Capacity: 0.06 Ton/hr

Applicable Requirements

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

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

Pollutant: Fugitive Dust

Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

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

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): See Plant Wide Conditions

Authority for Requirement: See Plant Wide Conditions

Operational Limits & Requirements

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

Reporting & Record keeping:

All records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable operating limits. Records shall be legible and maintained in an orderly manner.

1. See Section II. Plant-Wide Conditions, Operating Condition Monitoring

Authority for Requirement: 567 IAC 22.108(14)

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: See Table: Extruders

Associated Equipment

Associated Emission Unit ID Number: See Table: EXTRUDERS

Table: EXTRUDERS

Emission Point Number	Associated Emission Unit Number	Associated Emission Unit Description	Emission Unit Design Rate / Raw Material
Epf2	PEEXB1	Polyethylene Extruder	135 lb/hr. of resin
	PEEXB2	Polyethylene Extruder	135 lb/hr. of resin
	PEEXB3	Polyethylene Extruder	135 lb/hr. of resin
	PEEXB5	Polyethylene Extruder	130 lb/hr. of resin
	PEEXB6	Polyethylene Extruder	110 lb/hr. of resin
	PEEXB9	Polyethylene Extruder	135 lb/hr. of resin
Epf3	COEXB7	PE/PVDC Co-Extruder	140 lb/hr. of resin
	COEXB8	PE/PVDC Co-Extruder	140 lb/hr. of resin
	COEXB10	PE/PVDC Co-Extruder	200 lb/hr. of resin
	COEXB11	PE/PVDC Co-Extruder	150 lb/hr. of resin
	COEXB12	PE/PVDC Co-Extruder	150 lb/hr. of resin
	COEXB13	PE/PVDC Co-Extruder	150 lb/hr. of resin
	COEXB14	PE/PVDC Co-Extruder	240 lb/hr. of resin
	COEXB15	PE/PVDC Co-Extruder	240 lb/hr. of resin
	COEXB16	PE/PVDC Co-Extruder	240 lb/hr. of resin
	COEXB17	PE/PVDC Co-Extruder	240 lb/hr. of resin
COEXB18	PE/PVDC Co-Extruder	200 lb/hr. of resin	

Applicable Requirements

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

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

Pollutant: Fugitive Dust

Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

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

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

Operational Limits & Requirements

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

Reporting & Record keeping:

All records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable operating limits. Records shall be legible and maintained in an orderly manner.

1. See Section II. Plant-Wide Conditions, Operating Condition Monitoring
Authority for Requirement: 567 IAC 22.108(14)

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: Epf4

Associated Equipment

Associated Emission Unit ID Number: See Table: HEATERS

Table: HEATERS

Emission Point Number	Associated Emission Unit Number	Associated Emission Unit Description	Emission Unit Design Rate / Raw Material
Epf4	33HEAT1	Space Heater 1	2.376 MMBtu/hr. natural gas
	34HEAT1	Space Heater 2	0.250 MMBtu/hr. natural gas
	5AHEAT1	Space Heater 3	0.130 MMBtu/hr. natural gas
	5AHEAT2	Space Heater 4	0.130 MMBtu/hr. natural gas
	5HEAT1	Space Heater 5	0.300 MMBtu/hr. natural gas
	5HEAT2	Space Heater 6	0.300 MMBtu/hr. natural gas
	5HEAT3	Space Heater 7	0.300 MMBtu/hr. natural gas
	5HEAT4	Space Heater 8	0.300 MMBtu/hr. natural gas
	7AHEAT1	Space Heater 9	0.800 MMBtu/hr. natural gas

Applicable Requirements

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

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

Pollutant: Fugitive Dust

Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

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

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): See Plant Wide Conditions

Authority for Requirement See Plant Wide Conditions

Operational Limits & Requirements

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

Reporting & Record keeping:

All records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable operating limits. Records shall be legible and maintained in an orderly manner.

1. See Section II. Plant-Wide Conditions, Operating Condition Monitoring
Authority for Requirement: 567 IAC 22.108(14)

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: Epf5

Associated Equipment

Associated Emission Unit ID Numbers: PRTWSH

Emission Unit vented through this Emission Point: PRTWSH
Emission Unit Description: SafetyKleen Partswasher
Raw Material/Fuel: Solvent
Rated Capacity: 0.01 lbs/hr

Applicable Requirements

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

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

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

Operational Limits & Requirements

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

Reporting & Record keeping:

All records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable operating limits. Records shall be legible and maintained in an orderly manner.

- 1. See Section II. Plant-Wide Conditions, Operating Condition Monitoring
Authority for Requirement: 567 IAC 22.108(14)

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: See Table: Storage Silos

Associated Equipment

Associated Emission Unit ID Number: See Table: Storage Silos

Table: Storage Silos

Emission Point Number	Associated Emission Unit Number	Associated Emission Unit Description	Construction Permit Number	Emission Unit Capacity / Raw Material
FS4	PESIL04	Polyethylene Storage Silo 4	03-A-1210	200,000 lbs/PVC pellets
FS5	PESIL05	Polyethylene Storage Silo 5	03-A-1211	200,000 lbs/PVC pellets
FS6	PESIL06	Polyethylene Storage Silo 6	03-A-1212	200,000 lbs/PVC pellets
FS7	PESIL07	Polyethylene Storage Silo 7	03-A-1213	400,000 lbs/PVC pellets

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40 % ⁽¹⁾

Authority for Requirement: Iowa DNR Construction Permits in Table: Storage Silos
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permits in Table: Storage Silos
567 IAC 23.3(2)"a"

Operational Limits & Requirements

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

None at this time.

Emission Point Characteristics

These emission points shall conform to the conditions listed in the table below.

Emission Point #	Stack Height (feet)	Stack Opening (inches)	Stack Exhaust Flow Rate	Stack Temperature (°F)	Discharge Style	Authority For Requirement
FS4	67	20 x 20	Displacement Air	Ambient	Horizontal	03-A-1210
FS5	67	20 x 20	Displacement Air	Ambient	Horizontal	03-A-1211
FS6	67	20 x 20	Displacement Air	Ambient	Horizontal	03-A-1212
FS7	60	19 x 19	Displacement Air	Ambient	Horizontal	03-A-1213

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 85

Associated Equipment

Associated Emission Unit ID Numbers: FINCLEAN

Emission Unit vented through this Emission Point: FINCLEAN
Emission Unit Description: Ink staging & parts cleaning
Raw Material/Fuel: Ink and solvent
Rated Capacity: Variable

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)
Emission Limit(s): See Plant Wide Conditions
Authority for Requirement: See Plant Wide Conditions

Operational Limits & Requirements

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

Reporting & Record keeping:

All records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable operating limits. Records shall be legible and maintained in an orderly manner.

- 1. See Section II. Plant-Wide Conditions, Operating Condition Monitoring
Authority for Requirement: 567 IAC 22.108(14)

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: See Table: Shrink Extruders

Associated Equipment

Associated Emission Unit ID Number: See Table: Shrink Extruders

Table: Shrink Extruders

Emission Point Number	Associated Emission Unit Number	Associated Emission Unit Description	Emission Unit Design Rate / Raw Material
EP-F8	EU-COEXB19	Shrink Extruder	150 lb/hr
	EU-COEXB20	Shrink Extruder	150 lb/hr
	EU-COEXB21	Shrink Extruder	150 lb/hr
	EU-COEXB22	Shrink Extruder	150 lb/hr
	EU-COEXB23	Shrink Extruder	150 lb/hr

Applicable Requirements

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

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

Pollutant: Fugitive Dust

Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

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

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): See Plant Wide Conditions

Authority for Requirement: See Plant Wide Conditions

Pollutant: Single HAP (facility-wide)

Emission Limit(s): 9.4 tpy

Authority for Requirement: Iowa DNR Construction Permit 12-A-522

Pollutant: Total HAP (facility-wide)

Emission Limit(s): 24.4 tpy

Authority for Requirement: Iowa DNR Construction Permit 12-A-522

Operational Limits & Requirements

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

Process throughput:

1. Total VOC emissions from all printing inks, coatings and solvents used in all printing and plate making operations at this facility (Plant Number: 04-01-002) shall not exceed 240.0 tons per twelve-month period.
2. Single and total HAP emissions from this facility shall not exceed 9.4 and 24.4 tons per twelve-month period respectively.

Reporting & Record keeping:

All records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable operating limits. Records shall be legible and maintained in an orderly manner.

1. The permittee shall maintain records on the identification of the resin used in this emission unit
2. The owner or operator shall maintain daily records that show the identity, quantity and VOC content of each printing ink, coating and solvent used per process.
3. The owner or operator may take credit for any waste VOC shipped off-site. The owner or operator shall record the amount of waste shipped offsite. Based on the analysis of representative samples (as defined in 40 CFR 260.10) of the waste sent off-site the owner or operator may calculate an average twelve-month rolling VOC credit for each container of waste generated. This waste VOC may be subtracted from the rolling total of VOC used for the printing and plate making operations on the date the waste is shipped off-site.
4. The owner or operator shall record the VOC emissions from this process each month. The owner or operator shall calculate a rolling twelve-month total for VOC emissions from all printing and plate making operations at the facility (Plant Number: 04-01-002) until the VOC emissions exceed 180.0 tons per year. At this point the owner or operator shall immediately begin keeping 365-day rolling total of the VOC emissions from this process. Calculation requirements will revert back to a monthly basis if the 365-day rolling total of VOC is returned to below 180.0 tons.
5. The owner or operator shall record the single and total HAP emissions from these shrink extruders (EU-COEXB19, EU-COEXB20, EU-COEXB21, EU-COEXB22 and EU-COEXB23) each month. The owner or operator shall calculate a rolling twelve-month total for single and total HAP emissions from all printing and plate making operations at the facility (Plant Number: 04-01-002) until the single HAP emissions exceed 7.0 tons per year or the total HAP emissions exceed 18.0 tons

per year. At this point the owner or operator shall immediately begin keeping 365-day rolling total of the HAP emissions from this process. Calculation requirements will revert back to a monthly basis if the 365-day rolling total of HAPs is returned to below 7.0 tons for single and 18.0 tons for total.

Authority for Requirement: Iowa DNR Construction Permit 12-A-522

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (feet from ground): NA

Stack Opening (inches, diameter): NA

Stack Exhaust Flow Rate (scfm): NA

Stack Temperature (°F): NA

Discharge Style: Exhausts Inside Building

Authority for Requirement: Iowa DNR Construction Permit 12-A-522

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

IV. General Conditions

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

G1. Duty to Comply

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

G2. Permit Expiration

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

G3. Certification Requirement for Title V Related Documents

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

G4. Annual Compliance Certification

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

G5. Semi-Annual Monitoring Report

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

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
 - a. Form 1.0 "Facility Identification";
 - b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
 - c. Form 5.0 "Title V annual emissions summary/fee"; and
 - d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
 - a. Form 1.0 "Facility Identification";
 - b. Form 5.0 "Title V annual emissions summary/fee";
 - c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.

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

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

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

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

G8. Duty to Provide Information

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

G9. General Maintenance and Repair Duties

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

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

G10. Recordkeeping Requirements for Compliance Monitoring

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

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

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

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

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

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

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

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

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

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

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

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

G13. Hazardous Release

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

G14. Excess Emissions and Excess Emissions Reporting Requirements

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

2. Excess Emissions Reporting

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

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

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

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

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

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The facility at the time was being properly operated;
- c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
- d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. *567 IAC 22.108(16)*

G15. Permit Deviation Reporting Requirements

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

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

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

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

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
 - a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
 - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
 - c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
 - d. The changes are not subject to any requirement under Title IV of the Act.
 - e. The changes comply with all applicable requirements.
 - f. For such a change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
 - i. A brief description of the change within the permitted facility,
 - ii. The date on which the change will occur,
 - iii. Any change in emission as a result of that change,
 - iv. The pollutants emitted subject to the emissions trade
 - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
 - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
 - vii. Any permit term or condition no longer applicable as a result of the change.
2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*
3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*
4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*
5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

- a. An administrative permit amendment is a permit revision that is required to do any of the following:
 - i. Correct typographical errors
 - ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
 - iii. Require more frequent monitoring or reporting by the permittee; or
 - iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.
- b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.
- c. *Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.*

2. Minor Permit Modification.

- a. Minor permit modification procedures may be used only for those permit modifications that do any of the following:
 - i. Do not violate any applicable requirements
 - ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit.
 - iii. Do not require or change a case by case determination of an emission limitation or other standard, or increment analysis.
 - iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act.;
 - v. Are not modifications under any provision of Title I of the Act; and
 - vi. Are not required to be processed as significant modification.
- b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
 - i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs.
 - ii. The permittee's suggested draft permit
 - iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of a minor permit modification

procedures and a request that such procedures be used; and
iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).

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

3. Significant Permit Modification. Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, and those requirements that apply to Title V issuance and renewal. 567 IAC 22.111-567 IAC 22.113 The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. 567 IAC 22.105(1)"a"(4)

G19. Duty to Obtain Construction Permits

Unless exempted under 567 IAC 22.1(2), the permittee must not construct, install, reconstruct, or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, conditional permit, or permit pursuant to 567 IAC 22.8, or permits required pursuant to 567 IAC 22.4 and 567 IAC 22.5. Such permits shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source. 567 IAC 22.1(1)

G20. Asbestos

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

G21. Open Burning

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

G22. Acid Rain (Title IV) Emissions Allowances

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the

owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 22.108(7)*

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*
2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.
 - a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
 - b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.
 - c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a"*, *567 IAC 22.108(17)"b"*
3. A permit shall be reopened and revised under any of the following circumstances:
 - a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;
 - b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
 - c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
 - d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
 - e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*
4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

G25. Permit Shield

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:
 - a. *Such applicable requirements are included and are specifically identified in the permit; or*
 - b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.
3. A permit shield shall not alter or affect the following:
 - a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
 - b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
 - c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
 - d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

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

G27. Property Rights

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

G28. Transferability

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

G29. Disclaimer

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

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

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. Unless specifically waived by the department's stack test contact, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. The department may accept a testing protocol in lieu of a pretest meeting. A representative of the

department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

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

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 242-6001

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

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

G31. Prevention of Air Pollution Emergency Episodes

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

567 IAC 26.1(1)

G32. Contacts List

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

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

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

Chief, Air Quality Bureau
Iowa Department of Natural Resources
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 242-5100

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

Field Office 1

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

Field Office 2

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

Field Office 3

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

Field Office 4

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

Field Office 5

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

Field Office 6

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

Polk County Public Works Dept.

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

Linn County Public Health Dept.

Air Pollution Control Division
501 13th St., NW
Cedar Rapids, IA 52405
(319) 892-6000