

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

Name of Permitted Facility: Fres-co System USA, Inc.
Facility Location: 2026 Fernwood Avenue, Red Oak, IA 51566
Air Quality Operating Permit Number: 07-TV-007R3
Expiration Date: 8/22/2028
Permit Renewal Application Deadline: 2/22/2028

EIQ Number: 92-6928
Facility File Number: 69-01-020

Responsible Official

Name: Edward Walsh
Title: Vice President of Operations
Mailing Address: 3005 State Road, Telford, PA 18969
Phone #: (215) 721-4600

Permit Contact Person for the Facility

Name: Autumn Zander
Title: EHS Manager
Mailing Address: 3005 State Road, Telford, PA 18969
Phone #: (712) 721-4600

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



08/23/2023

Marnie Stein, Supervisor of Air Operating Permits Section

Date

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Abbreviations

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

Pollutants

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

I. Facility Description and Equipment List

Facility Name: Fres-co System USA, Inc.

Permit Number: 07-TV-007R3

Facility Description: Commercial Printing, Gravure (SIC 2754)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
EP-01, EP-05	EU-01	Printing Unit 1	99-A-339-S4 05-A-458-S2
	EU-02	Printing Unit 2	
	EU-03	Printing Unit 3	
	EU-04	Printing Unit 4	
	EU-05	Printing Unit 5	
	EU-06	Printing Unit 6	
	EU-07	Printing Unit 7	
	EU-08	Printing Unit 8	
	EU-09	Printing Unit 9	
	EU-10	Printing Unit 10	
	EU-11	Laminator 1	
	EU-12	Laminator 2	
	EU-13	Laminator 3	
	EU-14	Corona Treater 1	
	EU-15	Corona Treater 2	
	EU-16	Corona Treater 3	
	EU-17	Corona Treater 4	
	EU-18	Corona Treater 5	
	EU-22	Printing Unit 11	
	EU-23	Printing Unit 12	
	EU-24	Printing Unit 13	
	EU-25	Printing Unit 14	
	EU-26	Printing Unit 15	
	EU-27	Printing Unit 16	
	EU-28	Printing Unit 17	
	EU-29	Printing Unit 18	
	EU-30	Printing Unit 19	
	EU-31	Laminator 4	
	EU-32	Laminator 5	
	EU-33	Laminator 6	
	EU-34	Corona Treater 6	
	EU-35	Corona Treater 7	
	EU-36	Corona Treater 8	
	EU-37	Corona Treater 9	
	EU-38	Corona Treater 10	
	EU-42	P212 Printing Unit #1	

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
	EU-43	P212 Printing Unit #2	
	EU-44	P212 Printing Unit #3	
	EU-45	P212 Printing Unit #4	
	EU-46	P212 Printing Unit #5	
	EU-47	P212 Printing Unit #6	
	EU-48	P212 Printing Unit #7	
	EU-49	P212 Printing Unit #8	
	EU-50	P212 Printing Unit #9	
	EU-51	P212 Printing Unit #10	
	EU-52	P212 Corona Treater 1	
	EU-53	P212 Corona Treater 2	
EP-02	EU-19	Thermal Fluid Heater (Boiler)	04-A-1158-S2
EP-03	EU-20	Ethyl Alcohol Storage Tank	04-A-1159-S1
EP-04	EU-21	Ethyl Acetate Storage Tank	04-A-1160-S2
EP-06	EU-39	Thermal Fluid Heater (Boiler)	05-A-459-S1
EP-07	EU-103	Emergency Backup Generator	-

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
102	PRI Parts Washer
104	Parts Soak Tanks (3 Combined)
105	Rubber Roller Resurfacing Lathe
106	Solvent Distillation System
107	10,000 gal Ethyl Acetate AST
108	Anilox Roll Grinder

II. Plant-Wide Conditions

Facility Name: Fres-co System USA, Inc.

Permit Number: 07-TV-007R3

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: 8/23/2023

Ending on: 8/22/2028

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

Emission Limits

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

Opacity (visible emissions): 40% opacity

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

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

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

Particulate Matter:

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

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

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

Fugitive Dust: Attainment and Unclassified Areas - A person shall take reasonable precautions to prevent particulate matter from becoming airborne in quantities sufficient to cause a nuisance as defined in Iowa Code section 657.1 when the person allows, causes or permits any materials

to be handled, transported or stored or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved roads. Ordinary travel includes routine traffic and road maintenance activities such as scarifying, compacting, transporting road maintenance surfacing material, and scraping of the unpaved public road surface. (the preceding sentence is State Only) All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The public highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not be limited to, the following procedures.

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

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

Facility-Wide Emission Limits

Pollutant: Single HAP

Emission Limit(s): 9.4 tons/yr

Authority for Requirement: DNR Construction Permit 99-A-339-S4, 05-A-458-S2

Pollutant: Total HAP

Emission Limit(s): 24.4 tons/yr

Authority for Requirement: DNR Construction Permit 99-A-339-S4, 05-A-458-S2

Facility-Wide Operational Limits & Reporting/Record keeping Requirements

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

- A. Facility-wide HAP emissions shall not exceed 9.4 tons for any single HAP or 24.4 tons for all HAPs in any rolling 12-month period.
- B. In order to show compliance with the 9.4 ton per rolling 12-month Single HAP limit and the 24.4 tons per rolling 12-month Total HAP limit, the owner or operator shall maintain the following monthly records:
 - i. the monthly emission rate of each Single HAP from all equipment at the facility, including, but not limited to, the printing presses, combustion units, storage tanks, parts washers and cleaning operations;
 - ii. the rolling 12-month total amount of each Single HAP emitted from all equipment at the facility, including, but not limited to, the printing presses, combustion units, storage tanks, parts washers and cleaning operations;
 - iii. the monthly emission rate of Total HAP from all equipment at the facility, including, but not limited to, the printing presses, combustion units, storage tanks, parts washers and cleaning operations; and
 - iv. the rolling 12-month total amount of Total HAP emitted from all equipment at the facility, including, but not limited to, the printing presses, combustion units, storage tanks, parts washers and cleaning operations.
- C. If the 12-month rolling total of Single HAP emissions from the facility exceeds 7.5 tons, the owner or operator shall immediately begin keeping the following daily records:
 - i. The amount of Single HAP emissions from the facility, in tons.
 - ii. The 365-day rolling total of the amount of Single HAP emissions from the facility, in tons.

If daily usage records are not available for every day of a month, then the entire month's emissions must be included in the 365-day rolling total calculation until that month is outside the 365-day time period. Daily calculations for Single HAP emissions shall continue until the 365-day rolling total of the amount of VOC emissions from the facility drops below 7.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of Single HAP emissions will cease per Condition C. If the emissions once again exceed 7.5 tons, daily recordkeeping will be required per Condition C, above.

- D. If the 12-month rolling total of Total HAP emissions from the facility exceeds 19.5 tons, the owner or operator shall immediately begin keeping the following daily records:
 - iii. The amount of Total HAP emissions from the facility, in tons.
 - iv. The 365-day rolling total of the amount of Total HAP emissions from the facility, in tons.

If daily usage records are not available for every day of a month, then the entire month's emissions must be included in the 365-day rolling total calculation until that month is outside the 365-day time period. Daily calculations for Total HAP emissions shall continue until the 365-day rolling total of the amount of Total HAP emissions from the facility drops below 19.5 tons for the remainder of the current calendar month plus one additional calendar month. At that time, rolling daily calculation of Single HAP emissions will cease per Condition D.

If the emissions once again exceed 19.5 tons, daily recordkeeping will be required per Condition D, above.

Authority for Requirement: DNR Construction Permit 99-A-339-S4, 05-A-458-S2

III. Emission Point-Specific Conditions

Facility Name: Fres-co System USA, Inc.
 Permit Number: 07-TV-007R3

Emission Point ID Numbers: EP-01 & EP-05

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EP-01 EP-05	EU-01 to EU-10	Printing Units 1-10	Ink/Solvent, Adhesive	820 ft/min	99-A-339-S4 05-A-458-S2
	EU-11 to EU-13	Laminators 1-3	Adhesive	820 ft/min	
	EU-15 to EU-18	Corona Treaters 1-5	Ozone	7.5 kW	
	EU-22 to EU-30	Printing Units 11-19	Ink/Solvent, Adhesive	984 ft/min	
	EU-31 to EU-33	Laminators 4-6	Adhesive	1,148 ft/min	
	EU-34 to EU-38	Corona Treater 6-10	Ozone	7.5 kW (3) 10 kW (2)	
	EU-42 to EU-51	P212 Printing Units 1-10	Ink/Solvent	1,476 ft/min	
	EU-52 to EU-53	P212 Corona Treater 1-2	Ozone	16 kW	

Control Equipment ID Number: CE-01 (EP-01), CE-02 (EP-05)
 Control Equipment Description: Regenerative Thermal Oxidizers
 8.0 MMBtu/hr (Geo-Energy RTO CE-01),
 17.0 MMBtu/hr (AdWest RTO CE-02)

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: DNR Construction Permit 99-A-339-S4, 05-A-458-S2
 567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 1.0 lb/hr, 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 99-A-339-S4, 05-A-458-S2
567 IAC 23.3(2)"b"2

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppm_v

Authority for Requirement: DNR Construction Permit 99-A-339-S4, 05-A-458-S2
567 IAC 23.3(3)"e"

Pollutant: VOC

Emission Limit(s): 234.9 tons/yr⁽²⁾, 96% DE⁽³⁾

Authority for Requirement: DNR Construction Permit 99-A-339-S4, 05-A-458-S2

Pollutant: Single HAP

Emission Limit(s): See "Plant-Wide Conditions", 96% DE⁽³⁾

Authority for Requirement: DNR Construction Permit 99-A-339-S4, 05-A-458-S2

Pollutant: Total HAP

Emission Limit(s): See "Plant-Wide Conditions", 96% DE⁽³⁾

Authority for Requirement: DNR Construction Permit 99-A-339-S4, 05-A-458-S2

⁽²⁾ Combined VOC limit for printing operations vented through EP-01 and EP-05

⁽³⁾ Each RTO shall maintain a minimum destruction efficiency of 96% by weight during normal operation.

Operational Limits & Reporting/Record keeping Requirements

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

- A. The Regenerative Thermal Oxidizers (RTO) (CE01 and CE02) shall be operated and maintained according to the manufacturer's specifications.
 - i. 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.
 - ii. The owner or operator shall record all bypasses of the RTO. The bypass cause, duration and corrective action taken shall be recorded and reported to Iowa DNR Field Office 4. Such bypasses do not include initial start-up of control equipment or during the times when the presses were operating and applying inks and solvents that did not contain VOC.
- B. The combustion chamber temperature for CE01 shall be maintained at no less than 1500°F or at no less than 50°F below the average operating temperature measured during the most recent compliance test that demonstrated compliance with the required destruction efficiency.
 - i. The temperature of the RTO combustion chamber shall be monitored and recorded. The temperature shall be recorded at least once every 15 minutes.
 - ii. A copy of the report of the most recent stack test that demonstrated compliance, along with the average operating temperature for the combustion chamber of

CE01, shall be maintained at the facility and shall be made available for review to an Iowa DNR representative upon request.

- C. The combustion chamber temperature for CE02 shall be maintained at no less than 1600°F or at no less than 50°F below the average operating temperature measured during the most recent compliance test that demonstrated compliance with the required destruction efficiency.
 - i. The temperature of the RTO combustion chamber shall be monitored and recorded. The temperature shall be recorded at least once every 15 minutes.
 - ii. A copy of the report of the most recent stack test that demonstrated compliance, along with the average operating temperature for the combustion chamber of CE02, shall be maintained at the facility and shall be made available for review to an Iowa DNR representative upon request.
- D. The owner or operator shall install a flowmeter at the inlet of each RTO to monitor the inlet flow rate. The owner or operator shall assure that the capacity of each RTO is not exceeded by using an automated control linked to the flowmeter output readings.
- E. The RTOs shall maintain a minimum destruction efficiency of 96% by weight for VOC during normal operation.
- F. The printing presses shall be located in a building that was designed to capture 100% of the VOC emissions (i.e. a permanent total enclosure). All VOCs emissions from all the presses must be captured and exhausted through the RTOs.
- G. Printing Press 3 (P212) may be installed with additional exhaust stacks that are intended to exhaust the press directly to the atmosphere when using water based inks in the future. These stacks do not have Iowa DNR air construction permits and are not covered by permits 99-A-394-S4 or 05-A-458-S2. The owner or operator is not allowed to connect these additional exhaust stacks directly to Printing Press 3 (P212) in order to ensure that there are no emissions of VOC from them to the atmosphere. Prior to connecting these exhaust stacks to Printing Press 3 (P212), the owner or operator shall apply for and obtain a new construction permit for each exhaust stack.
- H. The owner or operator shall record daily the VOC usage for the inks, coatings, adhesives and solvents applied on Printing Press 1, Printing Press 2 and Printing Press 3 (P212). The monthly and the rolling 12-month totals of VOC usage shall also be determined in tons.
- I. In order to show compliance with the 234.9 ton per rolling 12-month VOC limit, the owner or operator shall maintain the following monthly records:
 - i. the monthly VOC emissions from the Geo-Energy RTO (EP 01) and the monthly VOC emissions from the AdWest RTO (EP 05), in tons; and
 - ii. the rolling 12-month total amount of VOC emissions from the Geo-Energy RTO (EP 01) and the AdWest RTO (EP 05), in tons.
 - a. Monthly VOC emissions from the Geo-Energy RTO shall be calculated in the following way:
$$VOCE = VOCa \times CE \times (1 - DE/100)$$

Where:
VOCE = tons of VOC emitted
VOCa = tons of VOC applied at Printing Press 1, Printing Press 2 and Printing Press 3 (P212) and exhausted to the Geo-Energy RTO
CE = capture efficiency, 1.0, (100% capture)

DE = destruction efficiency (%), determined by the most recent stack test on the Geo-Energy RTO that demonstrated compliance with the required control efficiency and that was reviewed and accepted by the Iowa DNR. Whenever the RTO is bypassed, the DE value shall be set to 0%.

b. Monthly VOC emissions from the AdWest RTO shall be calculated in the following way:

$$\text{VOCe} = \text{VOCa} \times \text{CE} \times (1 - \text{DE}/100)$$

Where:

VOCe = tons of VOC emitted

VOCa = tons of VOC applied at Printing Press 1, Printing Press 2 and Printing Press 3 (P212) and exhausted to the Ad-West RTO

CE = capture efficiency, 1.0, (100% capture)

DE = destruction efficiency (%), determined by the most recent stack test on the AdWest RTO that demonstrated compliance with the required control efficiency and that was reviewed and accepted by the Iowa DNR. Whenever the RTO is bypassed, the DE value shall be set to 0%.

J. In accordance with EPA Method 204 (Part 51, Appendix M), the building that encloses the printing presses shall meet the following criteria in order to be considered a permanent total enclosure:

- i. Any natural draft opening (NDO) shall be at least four equivalent opening diameters from each VOC emitting point. An NDO is any permanent opening in the enclosure that remains open during operation of the printing presses and that is not connected to a duct in which a fan is installed.
- ii. Any exhaust point from the enclosure shall be at least four equivalent duct diameters from each NDO.
- iii. The total area of all NDO's shall not exceed 5 percent of the surface area of the enclosure's four walls, floor and ceiling.
- iv. All access doors and windows whose areas are not included as a NDO shall be closed during routine operation of the printing presses.

K. See "Plant-Wide Conditions"

Authority for Requirement: DNR Construction Permit 99-A-339-S4, 05-A-458-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Characteristics	EP-01	EP-05
Stack Height, (ft, from the ground)	30	40
Stack Opening, (inches, dia.)	60	64
Exhaust Flow Rate (scfm)	40,000	68,000
Exhaust Temperature (°F)	260	239
Discharge Style	Vertical Unobstructed	Vertical Unobstructed
Authority for Requirement	99-A-339-S4	05-A-458-S2

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

Monitoring Requirements

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

Stack Testing (CAM Plan): Stack test shall be complete for each RTO to determine the destruction efficiency.

Pollutant - VOC

Stack Test to be Completed by (date) – Within sixty (60) days after achieving the maximum production rate and no later than one hundred eighty (180) days after the initial startup date of the proposed equipment for the addition of new equipment or the physical modification of existing equipment or control equipment.

Test Method - 40 CFR 63, Appendix A, Method 320 or
40 CFR 60, Appendix A, Method 18 or
40 CFR 60, Appendix A, Method 25A

Authority for Requirement: DNR Construction Permit 99-A-339-S4, 05-A-458-S2

Pollutant - HAP

Stack Test to be Completed by (date) – 8/22/2025

Test Method - 40 CFR 63, Appendix A, Method 320 or
40 CFR 60, Appendix A, Method 18 or

Authority for Requirement – 567 IAC 22.108(3)

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required?

Yes No

Facility Maintained Operation & Maintenance Plan Required?

Yes No

Compliance Assurance Monitoring (CAM) Plan Required?

Yes No

See attached CAM Plan in Appendix B.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-02

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU-19	Thermal Fluid Heater (boiler)	Natural Gas or Propane	14.215 MMBtu/hr	04-A-1158-S2

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: 40%⁽¹⁾

Emission Limit(s): Opacity

Authority for Requirement: DNR Construction Permit 04-A-1158-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.6 lb/MMBtu

Authority for Requirement: DNR Construction Permit 04-A-1158-S2
567 IAC 23.3(2)"b"(3)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500ppm_v

Authority for Requirement: DNR Construction Permit 04-A-158-S2
567 IAC 23.3(3)"e"

Pollutant: Single HAP

Emission Limit(s): See "Plant-Wide Conditions"

Authority for Requirement: DNR Construction Permit 99-A-339-S4, 05-A-458-S2

Pollutant: Total HAP

Emission Limit(s): See " Plant-Wide Conditions"

Authority for Requirement: DNR Construction Permit 99-A-339-S4, 05-A-458-S2

Operational Limits & Reporting/Record keeping Requirements

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

- A. This unit shall use natural gas or propane only.
- B. Maintain a record of the fuel that this unit uses each month.

Authority for Requirement: DNR Construction Permit 04-A-1158-S2

- A. See "Plant-Wide Conditions"

Authority for Requirement: DNR Construction Permit 99-A-339-S4, 05-A-458-S2

NSPS Applicability:

This emission unit is subject to Subparts A (General Provisions, 40 CFR Part 60.1 – 40 CFR Part 60.19) and Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units) of the New Source Performance Standards (NSPS).

Authority for Requirement: DNR construction Permit 04-A-1158-S2
567 IAC 23.1(2)"III"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 33
- Stack Opening, (inches, dia.): 30
- Exhaust Flow Rate (scfm): 2,900
- Exhaust Temperature (°F): 446
- Discharge Style: Obstructed Vertical
- Authority for Requirement: DNR Construction Permit 04-A-1158-S2

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

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-03

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU-20	Ethyl Alcohol Storage Tank	Ethyl Alcohol	10,000 gal	04-A-1159-S1

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%⁽¹⁾

Authority for Requirement: DNR Construction Permit 04-A-1159-S1
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 (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 04-A-1159-S1
567 IAC 23.3(2)"a"

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits:

- A. The throughput of material through this unit shall not exceed a maximum of 80,000 gallons per twelve (12) month rolling period, rolled monthly.
- B. This unit shall store only Ethyl Alcohol.

Reporting and Recordkeeping Requirements:

- A. At the end of each month, record the number of gallons that were put through this unit over the previous month.
- B. At the end of each month, record the number of gallons that were put through this unit over the previous twelve (12) months.
- C. For each shipment received, obtain an SDS or other documentation of the material that was delivered.

Authority for Requirement: DNR Construction Permit 04-A-1159-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): See Note ⁽¹⁾

Stack Opening, (inches, dia.): See Note ⁽¹⁾

Exhaust Flow Rate (scfm): Displacement and breathing losses

Exhaust Temperature (°F): Ambient

Discharge Style: See Note ⁽¹⁾

Authority for Requirement: DNR Construction Permit 04-A-1159-S1

⁽¹⁾Emissions from this unit will vent to the atmosphere through any opening in the tank. This could be dedicated vents or other openings.

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-04

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU-21	Ethyl Acetate Storage Tank	Ethyl Acetate	10,000 gal	04-A-1160-S2

Applicable Requirements

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

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

No emission limits at this time.

Operational Limits & Reporting/Record keeping Requirements

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

Operating Limits:

- A. The throughput of material through this unit shall not exceed a maximum of 400,000 gallons per twelve (12) month rolling period, rolled monthly.
- B. This unit shall store only ethyl acetate.

Reporting and Recordkeeping Requirements:

- A. At the end of each month, record the number of gallons that were put through this unit over the previous month.
- B. At the end of each month, record the number of gallons that were put through this unit over the previous twelve (12) months.
- C. For each shipment received, obtain an SDS or other documentation of the material that was delivered.

Authority for Requirement: DNR Construction Permit 04-A-1160-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): NA
Stack Opening, (inches, dia.): NA
Exhaust Flow Rate (scfm): Displacement and breathing loss
Exhaust Temperature (°F): Ambient
Discharge Style: NA
Authority for Requirement: DNR Construction Permit 04-A-1160-S2

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

Monitoring Requirements

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

- Agency Approved Operation & Maintenance Plan Required?** Yes No
- 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-06

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU-39	Thermal Fluid Heater (Boiler)	Natural Gas or Propane	11.4 MMBtu/hr	05-A-459-S1

Applicable Requirements

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

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

Pollutant: 40%⁽¹⁾

Emission Limit(s): Opacity

Authority for Requirement: DNR Construction Permit 05-A-459-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.6 lb/MMBtu

Authority for Requirement: DNR Construction Permit 05-A-459-S1
567 IAC 23.3(2)"b"(3)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500ppm_v

Authority for Requirement: DNR Construction Permit 05-A-459-S1
567 IAC 23.3(3)"e"

Pollutant: Single HAP

Emission Limit(s): See "Plant-Wide Conditions"

Authority for Requirement: DNR Construction Permit 99-A-339-S4, 05-A-458-S2

Pollutant: Total HAP

Emission Limit(s): See " Plant-Wide Conditions"

Authority for Requirement: DNR Construction Permit 99-A-339-S4, 05-A-458-S2

Operational Limits & Reporting/Record keeping Requirements

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

- A. This unit shall use natural gas or propane only.
- B. Maintain a record of the fuel that this unit uses each month.

Authority for Requirement: DNR Construction Permit 05-A-459-S1

- A. See "Plant-Wide Conditions"

Authority for Requirement: DNR Construction Permit 99-A-339-S4, 05-A-458-S2

NSPS Applicability:

This emission unit is subject to Subparts A (General Provisions, 40 CFR Part 60.1 – 40 CFR Part 60.19) and Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units) of the New Source Performance Standards (NSPS).

Authority for Requirement: DNR construction Permit 05-A-459-S1
567 IAC 23.1(2)"III"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 33
- Stack Opening, (inches, dia.): 32
- Exhaust Flow Rate (scfm): 2,250
- Exhaust Temperature (°F): 300
- Discharge Style: Obstructed Vertical
- Authority for Requirement: DNR Construction Permit 05-A-459-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-07

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
EU-103	Emergency Back-up Generator	Natural Gas	82 bhp	NA

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

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

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500ppm_v

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

Operational Limits & Reporting/Record keeping Requirements

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

No emission limits at this time.

NESHAP Applicability:

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

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

1. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(j) for the oil analysis option to extend time frame of requirements.)
2. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
5. Install a non-resettable hour meter if one is not already installed.
6. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Operating Limits 40 CFR 63.6640(f)

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

Recordkeeping Requirements 40 CFR 63.6655

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

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

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

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

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, Wallace State Office Building, 502 E 9th St., Des Moines, IA 50319-0034, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to U.S. EPA Region VII, Attention: Chief of Air Permitting & Standards Branch, 11201 Renner Blvd., Lenexa, KS 66219. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

G3. Certification Requirement for Title V Related Documents

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

G4. Annual Compliance Certification

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

G5. Semi-Annual Monitoring Report

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

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The emissions inventory shall be submitted annually by March 31 with forms specified by the department documenting actual emissions for the previous calendar year.
4. The fee shall be submitted annually by July 1 with forms specified by the department.
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

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

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

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

G8. Duty to Provide Information

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

G9. General Maintenance and Repair Duties

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

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

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:

- a. The date, place and time of sampling or measurements
- b. The date the analyses were performed.
- c. The company or entity that performed the analyses.
- d. The analytical techniques or methods used.
- e. The results of such analyses; and
- f. The operating conditions as existing at the time of sampling or measurement.
- g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)

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

3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
 - a. Comply with all terms and conditions of this permit specific to each alternative scenario.
 - b. Maintain a log at the permitted facility of the scenario under which it is operating.
 - c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

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

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

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

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

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

G13. Hazardous Release

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

G14. Excess Emissions and Excess Emissions Reporting Requirements

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

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

2. Excess Emissions Reporting

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

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

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

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.

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

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

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

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

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

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

G15. Permit Deviation Reporting Requirements

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

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

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

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

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
 - a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
 - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
 - c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
 - d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B));
 - e. The changes comply with all applicable requirements.
 - f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
 - i. A brief description of the change within the permitted facility,
 - ii. The date on which the change will occur,
 - iii. Any change in emission as a result of that change,
 - iv. The pollutants emitted subject to the emissions trade
 - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
 - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
 - vii. Any permit term or condition no longer applicable as a result of the change.
2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*
3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*
4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*

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

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

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

2. Minor Title V Permit Modification.

- a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:
 - i. Do not violate any applicable requirement;
 - ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;
 - iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;
 - iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;
 - v. Are not modifications under any provision of Title I of the Act; and
 - vi. Are not required to be processed as significant modification under rule 567 - 22.113(455B).
- b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
 - i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;

- ii. The permittee's suggested draft permit;
 - iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
 - iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).
- c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V Permit Modification.

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

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

G19. Duty to Obtain Construction Permits

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

G20. Asbestos

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

G21. Open Burning

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

G22. Acid Rain (Title IV) Emissions Allowances

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

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

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

has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,

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

G24. Permit Reopenings

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

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

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

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

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

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

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

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

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

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

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

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

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

G25. Permit Shield

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

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

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

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

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

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

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

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

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

G26. Severability

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

G27. Property Rights

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

G28. Transferability

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

G29. Disclaimer

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

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

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

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

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
Wallace State Office Building
502 E 9th St.
Des Moines, IA 50319-0034
(515) 725-9545

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

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

G31. Prevention of Air Pollution Emergency Episodes

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

567 IAC 26.1(1)

G32. Contacts List

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

Iowa Compliance Officer
Air Branch
Enforcement and Compliance Assurance Division
U.S. EPA Region 7
11201 Renner Blvd.
Lenexa, KS 66219
(913) 551-7020

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

Chief, Air Quality Bureau
Iowa Department of Natural Resources
Wallace State Office Building
502 E 9th St.
Des Moines, IA 50319-0034
(515) 725-8200

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

Field Office 1

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

Field Office 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

Wallace State Office Building
502 E 9th St.
Des Moines, IA 50319-0034
(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

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

V. Appendix

Appendix A: Web Reference Links

- Part 63 NESHAP Subpart ZZZZ: Stationary Reciprocating Internal Combustion Engines: <https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-ZZZZ>
- Part 60 NSPS Subpart A: General Provisions: <https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-A>
- Part 60 NSPS Subpart Dc: Small Industrial, Commercial, Institutional Steam Generating Units: <https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-Dc>

Appendix B: Compliance Assurance Monitoring Plan

Control Equipment	Control Equipment Description	Construction Permit	VOC Limit ⁽¹⁾	HAP Limit ⁽²⁾	Associated Emission Units
CE-01	Thermal Oxidizer (Geotherm)	99-A-339-S4	234.9 ton/yr	9.4 ton/yr Single 24.4 ton/yr Total	Printing Press 1 ⁽³⁾
CE-02	Thermal Oxidizer (Adwest)	05-A-458-S2			Printing Press 2 ⁽⁴⁾
					Printing Press 212 ⁽⁵⁾

⁽¹⁾ Combined VOC limit for Printing Press 1 and Printing Press 2, and Press 212.

⁽²⁾ Facility-wide limit so that facility is an area source.

⁽³⁾ Printing Press 1 consists of the following equipment:

- Printing Presses (EU-01 through EU-10)
- Laminators (EU-11 through EU-13)
- Corona Treaters (EU-14 through EU-18)

⁽⁴⁾ Printing Press 2 consists of the following equipment:

- Printing Presses (EU-22 through EU-30)
- Laminators (EU-31 through EU-33)
- Corona Treaters (EU-34 through EU-38)

⁽⁵⁾ Printing Press 212 consists of the following equipment:

- Printing Presses (EU-42 through EU-51)
- Corona Treaters (EU-52 through EU-53)

I. Background

The thermal oxidizers are used to control VOC and HAP emissions from Emission Points EP-01 and EP-05 that are both associated with the Printing Press 1, Printing Press 2, and Printing Press 212 emission units. These thermal oxidizers are used to achieve compliance with the referenced emission limits.

II. Monitoring Approach

	Indicator # 1	Indicator # 2	Indicator # 3	Indicator # 4
Indicator	Combustion Chamber Temperature	Inlet Flow to Oxidizers	Exhaust Damper Positions	Stack Test
Measurement Approach	Thermal oxidizer utilizes an electronic combustion temperature monitor	Install a flowmeter at the inlet of each RTO.	Programmable Logic Controller (PLC) continuously monitors exhaust damper positions.	Conduct stack test using EPA approved method to establish the destruction efficiency.
Indicator Range	An excursion is a combustion chamber temperature measurement less than 1,500 °F (for CE-01) and 1,600 °F (for CE-02) or less than 50 °F below the average operating temperature during the most recent compliance test that demonstrated compliance with the required destruction efficiency.	An excursion is a flow rate exceeding 40,000 scfm for (CE-01) and 68,000 scfm for (CE-02).	An excursion is a damper position that would allow print/lamination process VOC emissions to exhaust without thermal treatment.	An excursion is identified as a VOC destruction efficiency less than 96%.
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.	Each excursion triggers an assessment of the problem, corrective action and a reporting requirement.

III. Performance Criteria

	Indicator # 1 Combustion Chamber Temp.	Indicator # 2 Inlet Flow to Oxidizer	Indicator # 3 – Exhaust Damper Positions	Indicator # 4 – Stack Test
Data Representativeness	Temperature monitoring equipment is installed at locations representative of the combustion chamber temperature.	Flow will be measure at the inlet of each oxidizer.	Properly positioned dampers will assure the exhaust will reach the thermal oxidizer.	A test protocol shall be prepared and approved by the DNR prior to conducted the stack test.
Verification of Operational Status	installed at locations representative of	An automated control linked to the flowmeter output reading will ensure the capacity of each RTO is not exceeded.	Maintain the damper position control monitoring equipment as required to effectively exhaust press/laminator VOC to the thermal oxidizer Record inspections and adjustments.	Not applicable
QA/QC Practices/Criteria	Validation of system temperature conducted annually.	Instruments and controls shall be calibrated and maintained according to the facility schedule.	Instruments and controls shall be calibrated and maintained according to the facility schedule.	Stack Testing using EPA approved methods.
Monitoring Frequency	Combustion chamber temperature shall be monitored continuously and logged every 5 seconds by way of production monitoring software if the value changes when VOC are emitted by print/laminating operations.	Flow readings will be monitored continuously and interlock engaged to ensure the capacities of each RTO are not exceeded.	Damper position shall be monitored continuously and logged every 5 seconds by way of production monitoring software if the position changes when VOCs are emitted by print/laminating operations.	One stack test for each thermal oxidizer by **DATE** (within 2 years of permit issuance)
Data Collection Procedures	Recorded at least every 15-minutes by electronic media or on a chart. Maintain combustion chamber temperature readings and any corrective action for 5 years. Records must be made available upon request.	None	Maintain supporting data, bypass reports, equipment verification tests, all inspection records, and any corrective action for 5 years. Records must be made available upon request.	Per EPA approved stack testing method.
Averaging Period	Hourly	Not applicable	Not applicable	Not applicable