

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

Name of Permitted Facility: Transco Railway Products Inc.
Facility Location: 300 7th Avenue NW, Oelwein, Iowa 50662
Air Quality Operating Permit Number: 18-TV-003R1
Expiration Date: 05/30/2028
Permit Renewal Application Deadline: 11/30/2027

EIQ Number: 92-6832
Facility File Number: 33-01-016

Responsible Official

Name: Mr. Don Cole
Title: Plant Manager
Mailing Address: 200 N. LaSalle, Ste 1550, Chicago, Illinois 60601
Phone #: 312-283-5291

Permit Contact Person for the Facility

Name: Mr. Don Cole
Title: Plant Manager
Mailing Address: 300 7th Avenue N.W Oelwein, Iowa 50662
Phone #: 319-283-5291

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



05/31/2023

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
- CEcontrol equipment
- CEM.....continuous emission monitor
- °F.....degrees Fahrenheit
- EIQ.....emissions inventory questionnaire
- EPemission point
- EUemission unit
- gr./dscfgrains per dry standard cubic foot
- gr./100 cf.....grains per one hundred cubic feet
- IAC.....Iowa Administrative Code
- IDNR.....Iowa Department of Natural Resources
- MVAC.....motor vehicle air conditioner
- NAICS.....North American Industry Classification System
- NSPS.....new source performance standard
- ppmvparts per million by volume
- lb./hrpounds per hour
- lb./MMBtupounds per million British thermal units
- SCC.....Source Classification Codes
- scfm.....standard cubic feet per minute
- SICStandard Industrial Classification
- TPY.....tons per year
- USEPA.....United States Environmental Protection Agency

Pollutants

- PM.....particulate matter
- PM₁₀.....particulate matter ten microns or less in diameter
- SO₂.....sulfur dioxide
- NO_xnitrogen oxides
- VOC.....volatile organic compound
- CO.....carbon monoxide
- HAP.....hazardous air pollutant

I. Facility Description and Equipment List

Facility Name: Transco Railway Products Inc.

Permit Number: 18-TV-003R1

Facility Description: Railway Support (SIC 4789)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
1-1	1	Railcar Paint Booth	00-A-1039-S5
1-2			00-A-1040-S5
1-3			00-A-1041-S5
1-4			00-A-1042-S5
1-5			00-A-1043-S5
2-1	2	Locomotive Paint Booth	00-A-1044-S5
2-2			00-A-1045-S5
3	3	Lining Paint Booth	00-A-1046-S5
4-1	4	Manual Blast Room	98-A-466-S4
4-2			98-A-467-S4
5-1	5	South Mechanical Shop	16-A-066-S1
5-2			16-A-068-S1
5-3			16-A-070-S1
5-4			16-A-072-S1
5-5			16-A-083-S1
5-6			16-A-074-S1
5-7			16-A-077-S1
5-8			16-A-079-S1
5-9			16-A-081-S1
5-10			16-A-086-S1
5-11			16-A-067-S1
5-12			16-A-069-S1
5-13			16-A-071-S1
5-14			16-A-075-S1
5-15			16-A-076-S1
5-16			16-A-080-S1
5-17			16-A-082-S1
5-18			16-A-073-S1
5-19			16-A-078-S1
5-20			16-A-085-S1
5-21			16-A-087-S1
5-22			16-A-084-S1

Equipment List (continued)

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
5-23	5	South Mechanical Shop (continued)	16-A-088-S1
5-24			16-A-089-S1
5-25			16-A-090-S1
5-26			16-A-091-S1
5-28			16-A-093-S1
5-29			16-A-094-S1
5-30			16-A-095-S1
6	6-1	Tank Car Washing Stations	14-A-651-S4
6-5			20-A-352-S2
6-6			20-A-353-S2
6-7			20-A-354-S2
6-8			20-A-355-S2
6-9			20-A-356-S2
6-10			20-A-357-S2
6-11			20-A-358-S2
6-12			20-A-359-S2
6-13			20-A-360-S2
6-14	6-2	Tank Car Degassing Stations (Flash Point \geq 140°F)	20-A-361-S2
6-15			20-A-362-S2
6-16			20-A-363-S2
6-17	6-3	Tank Car Degassing Stations	21-A-154-S1
7	7	Boiler	14-A-652
8-1	8	N Bldg East Ext Paint Booth	16-A-096-S2
8-2			16-A-097-S2
9-1	9	N Bldg West Ext Paint Booth	16-A-098-S2
9-2			16-A-099-S2
10-1	10	N Bldg Ext Paint Drying Oven	16-A-100-S1
10-2			16-A-101-S1
11-1	11	N Bldg North Int Lining Booth	16-A-102-S2
11-2	11 H	N Bldg North Int Lining Booth Heater	16-A-103-S2
12-1	12 12-H-1 12-H-2	N Bldg South Int Lining Booth N Bldg South Int Lining Booth Heater 1 N Bldg South Int Lining Booth Heater 2	16-A-104-S2
12-2			16-A-105-S2
12-3			16-A-106-S2
12-4			16-A-107-S2
13-1	13	Exterior Blast Booth	16-A-108-S2
13-2			16-A-109-S2
14	14	Interior Blast Bay	16-A-110-S2
14-1	NBP	North Blast & Paint Building	18-A-124
14-2			18-A-125
17-1	17	Machine Shop N	16-A-111-S2
17-2			16-A-112-S2

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
17-3			16-A-113-S2
17-4			16-A-114-S2

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
PH	Plant-Wide Heating Units (10 MMBtu Individual)
AST-1	564-Gal Gasoline Tank
AST-2	235-Gal Diesel Tank
AST-3	327-Gal Diesel Tank
AST-4	235-Gal Diesel Tank
AST-5	231-Gal Kerosene Tank

II. Plant-Wide Conditions

Facility Name: Transco Railway Products Inc.
Permit Number: 18-TV-003R1

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

Permit Duration

The term of this permit is: Five (5) years from permit issuance.
Commencing on: 05/31/2023
Ending on: 05/30/2028

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 Limit(s)

The total emissions from the following emission units: Railcar Paint Booth (EU 1), Locomotive Paint Booth (EU 2), Lining Paint Booth (EU 3), Tank Car Cleaning Operation (EUs 6-1 - 6-3), North Bldg. East Exterior Paint Booth (EU 8), North Bldg. West Exterior Paint Booth (EU 9), North Bldg. North Interior Lining (EU 11), and North Bldg. South Interior Lining (EU 12) shall not exceed:

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 240 tons/yr

Authority for Requirement: DNR Construction Permits 00-A-1039-S5, 00-A-1040-S5, 00-A-1041-S5, 00-A-1042-S5, 00-A-1043-S5, 00-A-1044-S5, 00-A-1045-S5, 00-A-1046-S5, 14-A-651-S4, 20-A-352-S2, 20-A-353-S2, 20-A-354-S2, 20-A-355-S2, 20-A-356-S2, 20-A-357-S2, 20-A-358-S2, 20-A-359-S2, 20-A-360-S2, 20-A-361-S2, 20-A-362-S2, 20-A-363-S2, 21-A-154-S1, 16-A-119, 16-A-120, 16-A121, 16-A-096-S2, 16-A-097-S2, 16-A-098-S2, 16-A-099-S2,

NESHAP

Transco Railway Products, LLC is subject to 40 CFR 63 Subpart M MMM – National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products. Applicable subpart M requirements are incorporated below.

Emission Limits

According to §63.3890, an existing affected source, must limit organic HAP emissions to the atmosphere from the affected source to the applicable limit specified in paragraphs (b)(1) through (5) of this section, except as specified in paragraph (c) of this section, determined according to the requirements in §63.3940, 63.3950, and 63.3960. According to §63.3890(b)(1), for each existing general use coating affected source, limit organic HAP emissions to no more than 0.23 kg (1.9 lb) organic HAP per liter (gal) coating solids used during each 12-month compliance period.

Options for Meeting Emission Limits

According to §63.3891, to determine whether the organic HAP emission rate is equal to or less than the applicable emission limit in §63.3890, the facility shall use one of the following: §63.3891(a) Compliant material option, §63.3891(b) Emission rate without add-on controls option, or §63.3891(c) Emission rate with add-on controls option.

Operating Limits and Work Practice Standards

According to §63.3892 and §63.3893, for any coating operation(s) on which the facility uses the compliant material option or the emission rate without add-on controls option, the facility is not required to meet any operating limits or work practice standards. If the facility chooses the compliant material option please see parts §63.3892 and §63.3893 for a full description of the applicable requirements.

Notification of Compliance Status

According to §63.3910(c), the facility must submit the notification of compliance status required by §63.9(h) no later than 30 calendar days following the end of the initial compliance period described in §63.3940, 63.3950, and 63.3960. The notification of compliance status must contain the information specified in paragraphs (c)(1) through (11) of section §63.3910 and in 63.9(h).

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

III. Emission Point-Specific Conditions

Facility Name: Transco Railway Products Inc.
 Permit Number: **18-TV-003R1**

Emission Point ID Numbers: 1-1, 1-2, 1-3, 1-4, & 1-5

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
1-1	1	Railcar Paint Booth	CE 1-1: Fabric Filter	Coatings/ Solvents	42 gal/hr.	00-A-1039-S5
1-2			CE 1-2: Fabric Filter			00-A-1040-S5
1-3			CE 1-3: Fabric Filter			00-A-1041-S5
1-4			CE 1-4: Fabric Filter			00-A-1042-S5
1-5			CE 1-5: Fabric Filter			00-A-1043-S5

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%¹

Authority for Requirement: DNR Construction Permits 00-A-1039-S5, 00-A-1040-S5,
 00-A-1041-S5, 00-A-1042-S5, 00-A-1043-S5
 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_{2.5})

Emission Limit(s): 0.09 lb/hr

Authority for Requirement: DNR Construction Permits 00-A-1039-S5, 00-A-1040-S5,
 00-A-1041-S5, 00-A-1042-S5, 00-A-1043-S5

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.157 lb/hr

Authority for Requirement: DNR Construction Permits 00-A-1039-S5, 00-A-1040-S5,
 00-A-1041-S5, 00-A-1042-S5, 00-A-1043-S5

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: DNR Construction Permits 00-A-1039-S5, 00-A-1040-S5,
00-A-1041-S5, 00-A-1042-S5, 00-A-1043-S5
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): See Plant-Wide Conditions

Operational Limits, Requirements, and Associated Recordkeeping

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

All records as required by these permits shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping requirements for these permits shall be:

- A. The maximum solids content of any coating or solvent used in this paint booth shall not exceed 12.25 lb/gal. The VOC emissions from the following emission units shall not exceed 240 tons per rolling 12-month period: Railcar Paint Booth (EU 1), Locomotive Paint Booth (EU 2), Lining Paint Booth (EU 3), Tank Car Cleaning Operation (EU 6), North Bldg. East Exterior Paint Booth (EU 8), North Bldg. West Exterior Paint Booth (EU 9), North Bldg. North Interior Lining (EU 11), and North Bldg. South Interior Lining (EU 12). The owner or operator shall:
 - a. Maintain safety data sheets (SDS) for all coatings and solvents used in these emission units;
 - b. At the end of each month, record the amount of each coating and solvent used, in gallons, in these paint booths;
 - c. At the end of each month, calculate and record the VOC emissions, in tons, from these paint booths assuming 100% of the VOC content in the coatings and solvents is emitted;
 - d. At the end of each month, calculate and record the total VOC emissions, in tons, from these paint booths and the Tank Car Cleaning Operation over the previous twelve (12) months; and
 - e. If the rolling 12-month total amount of VOC emissions exceeds 200 tons the owner or operator shall track VOC emissions on a daily basis. At the end of each work day, the owner or operator shall calculate the 365-day total VOC emissions from these emission units. This calculation must be done each day until the 365-day total VOC emissions from these emission units are less than 200 tons. Calculations may then be performed on a monthly basis as long as the total emissions are below 200 tons.
- B. The facility shall comply with the organic HAP limit of 1.9 lb organic HAP per gallon coating solids as specified in 40 CFR Part 63, Subpart M. The facility shall utilize one of the compliance methodologies described in 40 CFR §63.3891. The owner or operator shall:

- a. Submit the applicable notifications in accordance with 40 CFR §63.3910 and
- b. Submit the applicable reports in accordance with 40 CFR §63.3920.
- C. The owner or operator shall maintain the Fabric Filters (CE 1-1, 1-2, 1-3, 1-4, and 1-5) according to the manufacturer's specifications and maintenance schedule. The owner or operator shall maintain a log of all maintenance and inspection activities performed on the Fabric Filters (CE 1-1, 1-2, 1-3, 1-4, and 1-5). This log shall include, but is not necessarily limited to:
 - a. The date and time any inspection and/or maintenance was performed on the Fabric Filters (CE 1-1, 1-2, 1-3, 1-4, and 1-5);
 - b. Any issues identified during the inspection and the date each issue was resolved;
 - c. Any issues addressed during the maintenance activities and the date each issue was resolved; and
 - d. Identification of the staff member performing the maintenance or inspection.
- D. The Railcar Paint Booth (EU 1) shall not operate between the hours of 12:00 AM and 6:00 AM each day. On a daily basis, the owner or operator shall record the date, start-up time, and shutdown time of the Railcar Paint Booth (EU 1).

A.

Authority for Requirement: DNR Construction Permits 00-A-1039-S5, 00-A-1040-S5,
 00-A-1041-S5, 00-A-1042-S5, 00-A-1043-S5
 40 CFR Part 63 Subpart M
 567 IAC 23.1(4)"cm"

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 38

Stack Opening, (inches, dia.): 36

Exhaust Flow Rate (scfm): 19,500

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permits 00-A-1039-S5, 00-A-1040-S5,
 00-A-1041-S5, 00-A-1042-S5, 00-A-1043-S5

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 2-1 & 2-2

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
2-1	2	Locomotive Paint Booth	CE 2-1: Fabric Filter	Coatings & Solvents	16 gal/hr.	00-A-1044-S5
2-2			CE 2-2: Fabric Filter			00-A-1045-S5

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%¹

Authority for Requirement: DNR Construction Permits 00-A-1044-S5 & 00-A-1045-S5
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_{2.5})

Emission Limit(s): 0.0525 lb/hr

Authority for Requirement: DNR Construction Permits 00-A-1044-S5 & 00-A-1045-S5

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.057 lb/hr

Authority for Requirement: DNR Construction Permits 00-A-1044-S5 & 00-A-1045-S5

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: DNR Construction Permits 00-A-1044-S5 & 00-A-1045-S5
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): See Plant-Wide Conditions

Operational Limits, Requirements, and Associated Recordkeeping

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

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

- A. The maximum solids content of any coating or solvent used in this paint booth shall not exceed 12.25 lb/gal. The VOC emissions from the following emission units shall not exceed 240 tons per rolling 12-month period: Railcar Paint Booth (EU 1), Locomotive Paint Booth (EU 2), Lining Paint Booth (EU 3), Tank Car Cleaning Operation (EU 6), North Bldg. East Exterior Paint Booth (EU 8), North Bldg. West Exterior Paint Booth (EU 9), North Bldg. North Interior Lining (EU 11), and North Bldg. South Interior Lining (EU 12). The owner or operator shall:
 - a. Maintain safety data sheets (SDS) for all coatings and solvents used in these emission units;
 - b. At the end of each month, record the amount of each coating and solvent used, in gallons, in these paint booths;
 - c. At the end of each month, calculate and record the VOC emissions, in tons, from these paint booths assuming 100% of the VOC content in the coatings and solvents is emitted;
 - d. At the end of each month, calculate and record the total VOC emissions, in tons, from these paint booths and the Tank Car Cleaning Operation over the previous twelve (12) months; and
 - e. If the rolling 12-month total amount of VOC emissions exceeds 200 tons the owner or operator shall track VOC emissions on a daily basis. At the end of each work day, the owner or operator shall calculate the 365-day total VOC emissions from these emission units. This calculation must be done each day until the 365-day total VOC emissions from these emission units are less than 200 tons. Calculations may then be performed on a monthly basis as long as the total emissions are below 200 tons.
- B. The facility shall comply with the organic HAP limit of 1.9 lb organic HAP per gallon coating solids as specified in 40 CFR Part 63, Subpart M. The facility shall utilize one of the compliance methodologies described in 40 CFR §63.3891. The owner or operator shall:
 - a. Submit the applicable notifications in accordance with 40 CFR §63.3910 and
 - b. Submit the applicable reports in accordance with 40 CFR §63.3920.
- C. The owner or operator shall maintain the Fabric Filter (CE 2-1) according to the manufacturer's specifications and maintenance schedule. The owner or operator shall maintain a log of all maintenance and inspection activities performed on the Fabric Filter (CE 2-1). This log shall include, but is not necessarily limited to:
 - a. The date and time any inspection and/or maintenance was performed on the Fabric Filter (CE 2-1);
 - b. Any issues identified during the inspection and the date each issue was resolved;
 - c. Any issues addressed during the maintenance activities and the date each issue

was resolved; and

- d. Identification of the staff member performing the maintenance or inspection.
- D. The Locomotive Paint Booth (EU 2) shall not operate between the hours of 12:00 AM and 6:00 AM each day. On a daily basis, the owner or operator shall record the date, start-up time, and shutdown time of the Railcar Paint Booth (EU 2).

Authority for Requirement: DNR Construction Permits 00-A-1044-S5 & 00-A-1045-S5
40 CFR Part 63 Subpart M
567 IAC 23.1(4)"cm"

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 38

Stack Opening, (inches, dia.): 36

Exhaust Flow Rate (scfm): 10,500

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permit 00-A-1044-S5 & 00-A-1045-S5

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 3

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
3	Lining Paint Booth	CE 3: Fabric Filter	Coatings & Solvents	19 Gal/hr	00-A-1046-S5

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 00-A-1046-S5
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_{2.5})

Emission Limit(s): 0.025 lb/hr

Authority for Requirement: DNR Construction Permit 00-A-1046-S5

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.063 lb/hr

Authority for Requirement: DNR Construction Permit 00-A-1046-S5

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: DNR Construction Permit 00-A-1046-S5
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): See Plant-Wide Conditions

Operational Limits, Requirements, and Associated Recordkeeping

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

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

- A. The maximum solids content of any coating or solvent used in this paint booth shall not exceed 12.25 lb/gal. The VOC emissions from the following emission units shall not exceed 240 tons per rolling 12-month period: Railcar Paint Booth (EU 1), Locomotive Paint Booth (EU 2), Lining Paint Booth (EU 3), Tank Car Cleaning Operation (EU 6), North Bldg. East Exterior Paint Booth (EU 8), North Bldg. West Exterior Paint Booth (EU 9), North Bldg. North Interior Lining (EU 11), and North Bldg. South Interior Lining (EU 12). The owner or operator shall:
 - a. Maintain safety data sheets (SDS) for all coatings and solvents used in these emission units;
 - b. At the end of each month, record the amount of each coating and solvent used, in gallons, in these paint booths;
 - c. At the end of each month, calculate and record the VOC emissions, in tons, from these paint booths assuming 100% of the VOC content in the coatings and solvents is emitted;
 - d. At the end of each month, calculate and record the total VOC emissions, in tons, from these paint booths and the Tank Car Cleaning Operation over the previous twelve (12) months; and
 - e. If the rolling 12-month total amount of VOC emissions exceeds 200 tons the owner or operator shall track VOC emissions on a daily basis. At the end of each work day, the owner or operator shall calculate the 365-day total VOC emissions from these emission units. This calculation must be done each day until the 365-day total VOC emissions from these emission units are less than 200 tons. Calculations may then be performed on a monthly basis as long as the total emissions are below 200 tons.
- B. The facility shall comply with the organic HAP limit of 1.9 lb organic HAP per gallon coating solids as specified in 40 CFR Part 63, Subpart M. The facility shall utilize one of the compliance methodologies described in 40 CFR §63.3891. The owner or operator shall:
 - a. Submit the applicable notifications in accordance with 40 CFR §63.3910 and
 - b. Submit the applicable reports in accordance with 40 CFR §63.3920.
- C. The owner or operator shall maintain the Fabric Filter (CE 3) according to the manufacturer's specifications and maintenance schedule. The owner or operator shall maintain a log of all maintenance and inspection activities performed on the Fabric Filter (CE 3). This log shall include, but is not necessarily limited to:
 - a. The date and time any inspection and/or maintenance was performed on the Fabric Filter (CE 3);
 - b. Any issues identified during the inspection and the date each issue was resolved;

- c. Any issues addressed during the maintenance activities and the date each issue was resolved; and
 - d. Identification of the staff member performing the maintenance or inspection.
- D. The Locomotive Paint Booth (EU 2) shall not operate between the hours of 12:00 AM and 6:00 AM each day. On a daily basis, the owner or operator shall record the date, start-up time, and shutdown time of the Railcar Paint Booth (EU 2).

Authority for Requirement: DNR Construction Permit 00-A-1046-S5
 40 CFR Part 63 Subpart M
 567 IAC 23.1(4)"cm"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 38
 Stack Opening, (inches, dia.): 36
 Exhaust Flow Rate (scfm): 6,600
 Exhaust Temperature (°F): Ambient
 Discharge Style: Vertical, Unobstructed
 Authority for Requirement: DNR Construction Permit 00-A-1046-S5

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 4-1 & 4-2

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
4-1	4	Manual Blast Room	CE 4-1: Baghouse	Coal Slag	8,688 lb/hr	98-A-466-S4
4-2			CE 4-2: Baghouse			98-A-467-S4

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%¹

Authority for Requirement: DNR Construction Permits 98-A-466-S4 & 98-A-467-S4
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_{2.5})

Emission Limit(s): 0.0173 lb/hr

Authority for Requirement: DNR Construction Permits 98-A-466-S4 & 98-A-467-S4

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.173 lb/hr

Authority for Requirement: DNR Construction Permits 98-A-466-S4 & 98-A-467-S4

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.70 lb/hr, 0.1 gr/scf

Authority for Requirement: DNR Construction Permits 98-A-466-S4 & 98-A-467-S4
567 IAC 23.3(2)"a"

Operational Limits, Requirements, and Associated Recordkeeping

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

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

- A. The owner or operator shall maintain the Baghouses (CE 4-1 and 4-2) according to the manufacturer’s specifications and maintenance schedule. The owner or operator shall maintain a log of all maintenance and inspection activities performed on each Baghouse. This log shall include, but is not necessarily limited to:
 - a. The date and time any inspection and/or maintenance was performed on the Baghouses (CE 4-1 and 4-2);
 - b. Any issues identified during the inspection and the date each issue was resolved;
 - c. Any issues addressed during the maintenance activities and the date each issue was resolved; and
 - d. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permits 98-A-466-S4 & 98-A-467-S4

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 38

Stack Opening, (inches, dia.): 36

Exhaust Flow Rate (scfm): 30,000

Exhaust Temperature (°F): 70

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permits 98-A-466-S4 & 98-A-467-S4

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

Monitoring Requirements

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 5-1, 5-2, 5-3, 5-4, 5-5, 5-6, 5-7, 5-8, 5-9, 5-10, 5-11, 5-12, 5-13, 5-14, 5-15, 5-16, 5-17, 5-18, 5-19, 5-20, 5-21, 5-22, 5-23, 5-24, 5-25, 5-26, 5-28, 5-29, 5-30

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
5-1	5	South Mechanical Shop (88 welders, 44 cutting torches, & 4 plasma cutters)	Welding/ Cutting Rods/Wires	3,295 weld inches/hr; 1,496 cut inches/hr	16-A-066-S1
5-2					16-A-068-S1
5-3					16-A-070-S1
5-4					16-A-072-S1
5-5					16-A-083-S1
5-6					16-A-074-S1
5-7					16-A-077-S1
5-8					16-A-079-S1
5-9					16-A-081-S1
5-10					16-A-086-S1
5-11					16-A-067-S1
5-12					16-A-069-S1
5-13					16-A-071-S1
5-14					16-A-075-S1
5-15					16-A-076-S1
5-16					16-A-080-S1
5-17					16-A-082-S1
5-18					16-A-073-S1
5-19					16-A-078-S1
5-20					16-A-085-S1
5-21					16-A-087-S1
5-22					16-A-084-S1
5-23					16-A-088-S1
5-24					16-A-089-S1
5-25					16-A-090-S1
5-26					16-A-091-S1
5-28					16-A-093-S1
5-29					16-A-094-S1
5-30					16-A-095-S1

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%¹

Authority for Requirement: DNR Construction Permits 16-A-066-S1, 16-A-067-S1, 16-A-068-S1, 16-A-069-S1, 16-A-070-S1, 16-A-071-S1, 16-A-072-S1, 16-A-073-S1, 16-A-074-S1, 16-A-075-S1, 16-A-076-S1, 16-A-077-S1, 16-A-078-S1, 16-A-079-S1, 16-A-080-S1, 16-A-081-S1, 16-A-082-S1, 16-A-083-S1, 16-A-084-S1, 16-A-085-S1, 16-A-086-S1, 16-A-087-S1, 16-A-088-S1, 16-A-089-S1, 16-A-090-S1, 16-A-091-S1, 16-A-093-S1, 16-A-094-S1, 16-A-095-S1

567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{2.5})

Emission Limit(s): 0.033 lb/hr

Authority for Requirement: DNR Construction Permits 16-A-066-S1, 16-A-067-S1, 16-A-068-S1, 16-A-069-S1, 16-A-070-S1, 16-A-071-S1, 16-A-072-S1, 16-A-073-S1, 16-A-074-S1, 16-A-075-S1, 16-A-076-S1, 16-A-077-S1, 16-A-078-S1, 16-A-079-S1, 16-A-080-S1, 16-A-081-S1, 16-A-082-S1, 16-A-083-S1, 16-A-084-S1, 16-A-085-S1, 16-A-086-S1, 16-A-087-S1, 16-A-088-S1, 16-A-089-S1, 16-A-090-S1, 16-A-091-S1, 16-A-093-S1, 16-A-094-S1, 16-A-095-S1

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.113 lb/hr

Authority for Requirement: DNR Construction Permits 16-A-066-S1, 16-A-067-S1, 16-A-068-S1, 16-A-069-S1, 16-A-070-S1, 16-A-071-S1, 16-A-072-S1, 16-A-073-S1, 16-A-074-S1, 16-A-075-S1, 16-A-076-S1, 16-A-077-S1, 16-A-078-S1, 16-A-079-S1, 16-A-080-S1, 16-A-081-S1, 16-A-082-S1, 16-A-083-S1, 16-A-084-S1, 16-A-085-S1, 16-A-086-S1, 16-A-087-S1, 16-A-088-S1, 16-A-089-S1, 16-A-090-S1, 16-A-091-S1, 16-A-093-S1, 16-A-094-S1, 16-A-095-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.125 lb/hr, 0.1 gr/scf

Authority for Requirement: DNR Construction Permits 16-A-066-S1, 16-A-067-S1, 16-A-068-S1, 16-A-069-S1, 16-A-070-S1, 16-A-071-S1, 16-A-072-S1, 16-A-073-S1, 16-A-074-S1, 16-A-075-S1, 16-A-076-S1, 16-A-077-S1, 16-A-078-S1, 16-A-079-S1, 16-A-080-S1, 16-A-081-S1, 16-A-082-S1, 16-A-083-S1, 16-A-084-S1, 16-A-085-S1, 16-A-086-S1, 16-A-087-S1, 16-A-088-S1, 16-A-089-S1, 16-A-090-S1, 16-A-091-S1, 16-A-093-S1, 16-A-094-S1, 16-A-095-S1
567 IAC 23.3(2)"a"

Operational Limits, Requirements, and Associated Recordkeeping

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

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

- A. The average hourly welding rate in the South Mechanical Shop shall not exceed 3,295 inches welded per hour, on a daily basis. The average hourly cutting rate in the South Mechanical Shop shall not exceed 1,496 inches cut per hour, on a daily basis. On a daily basis, the owner or operator shall:
 - a. Record the number of hours that the welders in the South Mechanical Shop were operated;
 - b. Record the number of hours that the plasma cutters in the South Mechanical Shop were operated;
 - c. Record the number of inches cut and inches welded in the South Mechanical Shop; and
 - d. Calculate and record the average number of inches cut per hour and average number of inches welded per hour.
- B. The welding electrode types used in the South Mechanical Shop shall be limited to a maximum emission factor of 35 pounds of PM₁₀ emissions per thousand pounds of electrode consumed (lb/10³ lb), as specified in Table 12.19-1 of EPA's *AP-42: Compilation of Air Emission Factors*. The owner or operator shall maintain documentation that specifies each type of electrode used in the South Mechanical Shop and the corresponding AP-42 PM₁₀ emission factor. The owner or operator may also use additional welding electrode approved by the Iowa DNR.

Authority for Requirement: DNR Construction Permits 16-A-066-S1, 16-A-067-S1, 16-A-068-S1, 16-A-069-S1, 16-A-070-S1, 16-A-071-S1, 16-A-072-S1, 16-A-073-S1, 16-A-074-S1, 16-A-075-S1, 16-A-076-S1, 16-A-077-S1, 16-A-078-S1, 16-A-079-S1, 16-A-080-S1, 16-A-081-S1, 16-A-082-S1, 16-A-083-S1, 16-A-084-S1, 16-A-085-S1, 16-A-086-S1, 16-A-087-S1, 16-A-088-S1, 16-A-089-S1, 16-A-090-S1, 16-A-091-S1, 16-A-093-S1, 16-A-094-S1, 16-A-095-S1

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

EP	Stack Height, (ft, from the ground)	Stack Opening, (inches, dia.)	Exhaust Flow Rate (scfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement
5-1	16	30	4,275	Ambient	Horizontal	16-A-066-S1
5-2	16	30	4,275	Ambient	Horizontal	16-A-068-S1
5-3	16	30	4,275	Ambient	Horizontal	16-A-070-S1
5-4	16	30	4,275	Ambient	Horizontal	16-A-072-S1
5-5	16	30	4,275	Ambient	Horizontal	16-A-083-S1
5-6	16	30	4,275	Ambient	Horizontal	16-A-074-S1
5-7	16	30	4,275	Ambient	Horizontal	16-A-077-S1
5-8	16	30	4,275	Ambient	Horizontal	16-A-079-S1
5-9	16	30	4,275	Ambient	Horizontal	16-A-081-S1
5-10	16	30	4,275	Ambient	Horizontal	16-A-086-S1
5-11	25	18	2,210	Ambient	Horizontal	16-A-067-S1
5-12	25	18	2,210	Ambient	Horizontal	16-A-069-S1
5-13	25	18	2,210	Ambient	Horizontal	16-A-071-S1
5-14	25	18	2,210	Ambient	Horizontal	16-A-075-S1
5-15	25	18	2,210	Ambient	Horizontal	16-A-076-S1
5-16	25	18	2,210	Ambient	Horizontal	16-A-080-S1
5-17	25	18	2,210	Ambient	Horizontal	16-A-082-S1
5-18	4	42	12,000	Ambient	Horizontal	16-A-073-S1
5-19	14	36	14,500	Ambient	Horizontal	16-A-078-S1
5-20	28	30	7,871	Ambient	Vertical Obstructed	16-A-085-S1
5-21	22	24	4,275	Ambient	Horizontal	16-A-087-S1
5-22	22	24	6,300	Ambient	Horizontal	16-A-084-S1
5-23	14	30	4,275	Ambient	Horizontal	16-A-088-S1
5-24	14	9	800	Ambient	Horizontal	16-A-089-S1
5-25	14	9	800	Ambient	Horizontal	16-A-090-S1
5-26	14	9	800	Ambient	Horizontal	16-A-091-S1
5-28	14	9	800	Ambient	Horizontal	16-A-093-S1
5-29	14	9	800	Ambient	Horizontal	16-A-094-S1
5-30	14	9	800	Ambient	Horizontal	16-A-095-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: 6, 6-5, 6-6, 6-7, 6-8, 6-9, 6-10, 6-11, 6-12, 6-13, 6-14, 6-15, 6-16, & 6-17

Associated Equipment

EU ID	Emission Unit Description	Maximum Design Capacity	CE Description and ID	EP ID	Permit Number
EU-6-1	Tank Car Washing Stations	18 cars/day	None	EP-6	14-A-651-S4
				EP-6-5	20-A-352-S2
				EP-6-6	20-A-353-S2
				EP-6-7	20-A-354-S2
				EP-6-8	20-A-355-S2
				EP-6-9	20-A-356-S2
				EP-6-10	20-A-357-S2
				EP-6-11	20-A-358-S2
				EP-6-12	20-A-359-S2
				EP-6-13	20-A-360-S2
EU-6-2	Tank Car Degassing Stations (See Note 1)	12 cars/day	None	EP-6-14	20-A-361-S2
				EP-6-15	20-A-362-S2
				EP-6-16	20-A-363-S2
EU-6-3	Tank Car Degassing Stations	24 cars/day	Natural-gas assisted Flare, 250 cubic feet/min 3 Pilots, each at 0.085 MMBtu/hour (CE-6-17)	EP-6-17	21-A-154-S1

Raw Material/Fuel: Cleaning and related materials

Applicable Requirements

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

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

For all Emission Points EXCEPT 6-17

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permits 14-A-651-S4, 20-A-352-S2, 20-A-353-S2, 20-A-354-S2, 20-A-355-S2, 20-A-356-S2, 20-A-357-S2, 20-A-358-S2, 20-A-359-S2, 20-A-360-S2, 20-A-361-S2, 20-A-362-S2, 20-A-363-S2
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permits 14-A-651-S4, 20-A-352-S2, 20-A-353-S2, 20-A-354-S2, 20-A-355-S2, 20-A-356-S2, 20-A-357-S2, 20-A-358-S2, 20-A-359-S2, 20-A-360-S2, 20-A-361-S2, 20-A-362-S2, 20-A-363-S2
567 IAC 23.3(2)"a"(1)

For EP 6-17

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 21-A-154-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf, 0.01 lbs/hr

Authority for Requirement: DNR Construction Permit 21-A-154-S1
567 IAC 23.3(2)"a"(1)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppm_v

Authority for Requirement: DNR Construction Permit 21-A-154-S1
567 IAC 23.3(3)"e"

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): See Plant-Wide Conditions

Operational Limits & Requirements

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

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

Tank Car Cleaning Operation Requirements:

A. The owner or operator shall only use EU-6-2 uncontrolled stations and EU-6-3 controlled stations to perform railcar degassing operations.

(1) The owner or operator may use EU-6-2 uncontrolled stations to degas railcars

with commodities which have a flash point equal to or greater than 140°F.

- a. The owner or operator shall maintain records of the name, flash point (°F), and vapor pressure (standard mmHg) for each commodity in the railcars that are degassed at EU-6-2 stations. NOTE: if the vapor pressure for a commodity is not available, the vapor pressure of a similar commodity may be assumed.
- (2) The owner or operator shall only use EU-6-3 controlled stations to degas pressurized railcars and railcars with commodities which have a flash point of less than 140°F.
 - a. The owner or operator shall maintain records of the name, flash point (°F), and vapor pressure (standard mmHg) for each commodity in the railcars that are degassed at EU-6-3 stations. NOTE: if the vapor pressure for a commodity is not available, the vapor pressure of a similar commodity may be assumed.
- B. The owner or operator shall operate the control equipment as follows:
 - (1) The flare (CE-6-17) shall operate whenever any EU-6-3 station is in use.
 - (2) The flare (CE-6-17) shall operate with no visible emissions.
 - (3) The flare system shall provide the assist air needed to ensure smokeless combustion.
 - (4) The flare combustion shall be assisted by natural gas only.
- C. The owner or operator shall operate, inspect, and maintain the flare (CE-6-17) according to the manufacturer's specifications and instructions.
 - (1) The owner or operator shall keep a log of all maintenance and inspection activities performed on the control equipment. At a minimum, this log shall include the following:
 - a. The date that any inspection and/or maintenance was performed on the control equipment;
 - i. The owner or operator shall conduct inspection activities at a minimum of once per calendar year.
 - b. Any issues identified during inspection and maintenance activities;
 - c. The date each issue was resolved; and
 - d. Identification of the staff member performing the maintenance inspection.

Tank Car Cleaning and Surface Coating Operations: General Requirements

- D. The owner or operator shall apply the VOC combined emission limit listed in Construction Permit Condition 1A (Table 2) to the tank car cleaning and surface coating operations.
 - (1) The tank car cleaning operation includes the following emission units:
 - a. Tank Car Washing Stations (EU-6-1)
 - b. Uncontrolled Tank Car Degassing Stations (EU-6-2)
 - c. Controlled Tank Car Degassing Stations (EU-6-3)
 - (2) The surface coating operations include the following emission units:
 - a. Railcar Paint Booth (EU-1)
 - b. Locomotive Paint Booth (EU-2)
 - c. Lining Paint Booth (EU-3)
 - d. North Building – East Exterior Paint Booth (EU-8)

- e. North Building – West Exterior Paint Booth (EU-9)
 - f. North Building - North Interior Lining Paint Booth (EU-11)
 - g. North Building - South Interior Lining Paint Booth (EU-12)
- E. The owner or operator shall maintain on-site manufacturer and vendor provided information (Safety Data Sheets, technical data sheets, etc.) for all applicable materials associated with the tank car cleaning operation and the surface coating operations at Plant No. 33-01-016.
- F. All emissions from the tank car washing stations (EU-6-1) shall be accounted for in the uncontrolled tank car degassing stations (EU-6-2).
- G. The VOC combined emission limit shall not include VOC emissions from the combustion of natural gas by the North Building-North Interior Lining Paint Booth Heater (EU-11-H); the North Building-South Interior Lining Paint Booth Heater #1 (EU-12-H-1); or the North Building-South Interior Lining Paint Booth Heater #2 (EU-12-H-2).
- H. The owner or operator shall maintain daily records of the car volume for each railcar degassed at Plant Number 33-01-016.

Tank Car Cleaning and Surface Coating Operations: VOC Calculations Requirements

- I. The owner or operator shall calculate the total VOC emissions, in tons, from the tank car cleaning and surface coating operations using the following equation.

$$(1) \text{VOC}_{\text{Total}} = \text{VOC}_{(6-2)} + \text{VOC}_{(6-3)} + \text{VOC}_{(\text{SCO})}$$

Where:

$\text{VOC}_{\text{Total}}$ = Total VOC emissions from the tank car cleaning operation and the surface coating operations at Plant Number 33-01-016

$$\text{VOC}_{(6-2)} = \sum[\{(P_V * CF_1 * V_{\text{Car}}) / (R * T_{\text{Std}})\} * MW * CF_2 * (1 \text{ ton}/2000 \text{ pounds})]$$

Where:

$\text{VOC}_{(6-2)}$ = VOC emissions from the operation of EU-6-2

P_V = Vapor pressure, in standard mmHg, for each VOC-containing commodity with a flash point equal to or greater than 140°F in the associated railcar degassed during the calculation period

CF_1 = 0.00132 atm/mmHg (vapor pressure conversion factor)

V_{Car} = Car volume, in liters, for each railcar degassed during the calculation period

R = 0.08206 L-atm/mol-K (Ideal Gas Constant)

T_{Std} = 297 K (standard temperature, in Kelvin)

MW = Molecular weight of material, in g/mol

CF_2 = 0.0022 lb/g (mass conversion factor)

Note: The owner or operator may use an equivalent equation.

$$\begin{aligned} \text{VOC}_{(6-3)} &= \text{VOC}_{(\text{P6-3})} + \text{VOC}_{(\text{U6-3})} \\ &= \sum[\{(P_{\text{Car}} * CF_1 * V_{\text{Car}}) / (R * T_{\text{Std}})\} * MW * CF_2 * CE_{\text{Flare}} * \\ &\quad (1 \text{ ton}/2000 \text{ pounds})] + \\ &\quad \sum[\{(P_V * CF_1 * V_{\text{Car}}) / (R * T_{\text{Std}})\} * MW * CF_2 * CE_{\text{Flare}} * \\ &\quad (1 \text{ ton}/2000 \text{ pounds})] \end{aligned}$$

Where:

$VOC_{(P6-3)}$ = VOC emissions from the operation of EU-6-3 when degassing pressurized railcars

$VOC_{(U6-3)}$ = VOC emissions from the operation of EU-6-3 when degassing unpressurized railcars

P_{Car} = Car pressure, in standard mmHg, for each pressurized railcar degassed during the calculation period

P_V = Vapor pressure, in standard mmHg, for each VOC-containing commodity in the associated railcar degassed during the calculation period

$CF_1 = 0.00132$ atm/mmHg (vapor pressure conversion factor)

V_{Car} = Car volume, in liters, for each railcar degassed during the calculation period

$R = 0.08206$ L-atm/mol-K (Ideal Gas Constant)

$T_{Std} = 297$ K (standard temperature, in Kelvin)

MW = Molecular weight of material, in g/mol

$CF_2 = 0.0022$ lb/g (mass conversion factor)

$CE_{Flare} = 1 - (98/100)$, flare control efficiency

Note: The owner or operator may use an equivalent equation.

$VOC_{(SCO)}$ = VOC emissions from the operation of the surface coating operations listed in Permit Condition 5.D.(2)

Note: Components that are not VOCs and components with a vapor pressure at 212°F less than 0.001 psia are assumed to be zero (0) VOC.

- J. The owner or operator shall record the total amount, in tons, of VOC emitted from the tank car cleaning operation and the surface coating operations at Plant Number 33-01-016 on a monthly basis. The owner or operator shall calculate total monthly VOC emissions using the equations in Construction Permit Condition 5.I.
- K. The owner or operator shall calculate and record the total amount, in tons, of VOC emitted from the tank car cleaning operation and the surface coating operations at Plant Number 33-01-016 on a rolling 12-month basis.
- L. The owner or operator shall implement the procedure described in Permit Condition 5.M if the rolling 12-month total amount of VOC emitted from the tank car cleaning operation and the surface coating operation at Plant Number 33-01-016 exceeds 200 tons.
- M. The owner or operator shall record the total amount, in tons, of VOC emitted from the tank car cleaning operation and the surface coating operations at Plant Number 33-01-016 on a daily basis. The owner or operator shall calculate total daily VOC emissions using the equations in Construction Permit Condition 5.I.
 - (1) The owner or operator shall calculate and record the total amount, in tons, of VOC emitted from the tank car cleaning operation and the surface coating operations at Plant Number 33-01-016 on a rolling 365-day basis.
 - (2) Calculation and recordkeeping of VOC emissions from data collected on Saturdays and Sundays shall be conducted on Mondays.

- (3) Calculation and recordkeeping of VOC emissions shall not be required when emissions do not occur.
- (4) Daily VOC emissions calculations as specified here shall continue until the rolling 12-month total drops below 200 tons on the last day of the following month, at which time rolling daily VOC emissions calculations shall cease.

Authority for Requirement: DNR Construction Permits 14-A-651-S4, 20-A-352-S2, 20-A-353-S2, 20-A-354-S2, 20-A-355-S2, 20-A-356-S2, 20-A-357-S2, 20-A-358-S2, 20-A-359-S2, 20-A-360-S2, 20-A-361-S2, 20-A-362-S2, 20-A-363-S2, 21-A-154-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

EP ID	Stack Height (feet)	Discharge Style	Stack Opening (inches)	Stack Temperature (°F)	Exhaust Flowrate (scfm)
EP-6	Indoor Vented	Indoor Vented	Indoor Vented	68	Indoor Vented
EP-6-5	33.3	Vertical, unobstructed	3	170	675
EP-6-6	33.3	Vertical, unobstructed	3	170	675
EP-6-7	33.3	Vertical, unobstructed	3	170	675
EP-6-8	33.3	Vertical, unobstructed	3	170	675
EP-6-9	33.3	Vertical, unobstructed	3	170	675
EP-6-10	33.3	Vertical, unobstructed	3	170	675
EP-6-11	33.3	Vertical, unobstructed	3	170	675
EP-6-12	33.3	Vertical, unobstructed	3	170	675
EP-6-13	33.3	Vertical, unobstructed	3	170	675
EP-6-14	See Note 1	See Note 1	See Note 1	170	See Note 1
EP-6-15	See Note 1	See Note 1	See Note 1	170	See Note 1
EP-6-16	See Note 1	See Note 1	See Note 1	170	See Note 1
EP-6-17	55	Vertical, unobstructed	24	1,000	1,900

Note 1: Emission Points 6-14 through 6-16 are not associated with the tank car cleaning building. These are placeholders for individual tank cars receiving steam.

Authority for Requirement: DNR Construction Permits 14-A-651-S4, 20-A-352-S2, 20-A-353-S2, 20-A-354-S2, 20-A-355-S2, 20-A-356-S2, 20-A-357-S2, 20-A-358-S2, 20-A-359-S2, 20-A-360-S2, 20-A-361-S2, 20-A-362-S2, 20-A-363-S2, 21-A-154-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 7

Associated Equipment

Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
7	Boiler	Natural Gas	10.51 MMBtu/hr	14-A-652

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 14-A-652
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.6 lb/MMBtu

Authority for Requirement: DNR Construction Permit 14-A-652
567 IAC 23.3(2)b(2)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permit 14-A-652
567 IAC 23.3(3)e

Operational Limits, Requirements, and Associated Recordkeeping

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

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

- A. This emission unit shall combust natural gas only.
- B. Per 40 CFR §60.48c(g)(1), the owner or operator shall record and maintain records of the amount of each fuel combusted during each operating day. As an alternative to this requirement per 40 CFR §60.48c(g)(2) and 40 CFR §60.48c(g)(3), the owner or operator may elect to either:
 - a. record and maintain records of the amount of each fuel combusted during each calendar

- month [See 40 CFR §60.48c(g)(2)] or
- b. record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month [See 40 CFR §60.48c(g)(3)].

Authority for Requirement: DNR Construction Permit 14-A-652
40 CFR Part 60 Subpart Dc
567 IAC 23.1(2)"III"

NESHAP:

This source is subject to 40 CFR 63 Subpart DDDDD – National Emissions Standards for Hazardous Air Pollutants for Major Sources: Industrial, and Institutional Boilers and Process Heaters.

Authority for Requirement: 40 CFR 63 Subpart DDDDD

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 37.3
Stack Opening, (inches, dia.): 18
Exhaust Flow Rate (scfm): 3,374
Exhaust Temperature (°F): 365
Discharge Style: Vertical, Obstructed
Authority for Requirement: DNR Construction Permit 14-A-652

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 8-1 & 8-2

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
8-1	8	N Bld East Ext Paint Booth	CE 8-1: Fabric Filter	Coatings & Solvents	25 Gal/hr.	16-A-096-S2
8-2			CE 8-2: Fabric Filter			16-A-097-S2

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%¹

Authority for Requirement: DNR Construction Permits 16-A-096-S2 & 16-A-097-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_{2.5})

Emission Limit(s): 0.0135 lb/hr

Authority for Requirement: DNR Construction Permits 16-A-096-S2 & 16-A-097-S2

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.085 lb/hr

Authority for Requirement: DNR Construction Permits 16-A-096-S2 & 16-A-097-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: DNR Construction Permits 16-A-096-S2 & 16-A-097-S2
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): See Plant-Wide Conditions

Operational Limits, Requirements, and Associated Recordkeeping

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

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

- A. The maximum solids content of any coating or solvent used in this paint booth shall not exceed 12.25 lb/gal. The VOC emissions from the following emission units shall not exceed 240 tons per rolling 12-month period: Railcar Paint Booth (EU 1), Locomotive Paint Booth (EU 2), Lining Paint Booth (EU 3), Tank Car Cleaning Operation (EU 6), North Bldg. East Exterior Paint Booth (EU 8), North Bldg. West Exterior Paint Booth (EU 9), North Bldg. North Interior Lining (EU 11), and North Bldg. South Interior Lining (EU 12). The owner or operator shall:
 - a. Maintain safety data sheets (SDS) for all coatings and solvents used in these emission units;
 - b. At the end of each month, record the amount of each coating and solvent used, in gallons, in these paint booths;
 - c. At the end of each month, calculate and record the VOC emissions, in tons, from these paint booths assuming 100% of the VOC content in the coatings and solvents is emitted;
 - d. At the end of each month, calculate and record the total VOC emissions, in tons, from these paint booths and the Tank Car Cleaning Operation over the previous twelve (12) months; and
 - e. If the rolling 12-month total amount of VOC emissions exceeds 200 tons the owner or operator shall track VOC emissions on a daily basis. At the end of each work day, the owner or operator shall calculate the 365-day total VOC emissions from these emission units. This calculation must be done each day until the 365-day total VOC emissions from these emission units are less than 200 tons. Calculations may then be performed on a monthly basis as long as the total emissions are below 200 tons.
- B. The facility shall comply with the organic HAP limit of 1.9 lb organic HAP per gallon coating solids as specified in 40 CFR Part 63, Subpart M. The facility shall utilize one of the compliance methodologies described in 40 CFR §63.3891. The owner or operator shall:
 - a. Submit the applicable notifications in accordance with 40 CFR §63.3910 and
 - b. Submit the applicable reports in accordance with 40 CFR §63.3920.
- C. The owner or operator shall maintain the Fabric Filter (CE 8-1 and 8-2) according to the manufacturer's specifications and maintenance schedule. The owner or operator shall maintain a log of all maintenance and inspection activities performed on the Fabric Filter (CE 8-1 and 8-2). This log shall include, but is not necessarily limited to:
 - a. The date and time any inspection and/or maintenance was performed on the Fabric Filter (CE 8-1 and 8-2);

- b. Any issues identified during the inspection and the date each issue was resolved;
- c. Any issues addressed during the maintenance activities and the date each issue was resolved; and
- d. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permits 16-A-096-S2 & 16-A-097-S2
 40 CFR Part 63 Subpart M
 567 IAC 23.1(4)"cm"

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 57.5

Stack Opening, (inches, dia.): 48

Exhaust Flow Rate (scfm): 22,500

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permits 16-A-096-S2 & 16-A-097-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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 9-1 & 9-2

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
9-1	9	N Bldg West Ext Paint Booth	CE 9-1: Fabric Filter	Coatings & Solvents	25 Gal/hr.	16-A-098-S2
9-2			CE 9-2: Fabric Filter			16-A-099-S2

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%¹

Authority for Requirement: DNR Construction Permits 16-A-098-S2 & 16-A-099-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_{2.5})

Emission Limit(s): 0.0135 lb/hr

Authority for Requirement: DNR Construction Permits 16-A-098-S2 & 16-A-099-S2

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.085 lb/hr

Authority for Requirement: DNR Construction Permits 16-A-098-S2 & 16-A-099-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: DNR Construction Permits 16-A-098-S2 & 16-A-099-S2
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): See Plant-Wide Conditions

Operational Limits, Requirements, and Associated Recordkeeping

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

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

- A. The maximum solids content of any coating or solvent used in this paint booth shall not exceed 12.25 lb/gal. The VOC emissions from the following emission units shall not exceed 240 tons per rolling 12-month period: Railcar Paint Booth (EU 1), Locomotive Paint Booth (EU 2), Lining Paint Booth (EU 3), Tank Car Cleaning Operation (EU 6), North Bldg. East Exterior Paint Booth (EU 8), North Bldg. West Exterior Paint Booth (EU 9), North Bldg. North Interior Lining (EU 11), and North Bldg. South Interior Lining (EU 12). The owner or operator shall:
 - a. Maintain safety data sheets (SDS) for all coatings and solvents used in these emission units;
 - b. At the end of each month, record the amount of each coating and solvent used, in gallons, in these paint booths;
 - c. At the end of each month, calculate and record the VOC emissions, in tons, from these paint booths assuming 100% of the VOC content in the coatings and solvents is emitted;
 - d. At the end of each month, calculate and record the total VOC emissions, in tons, from these paint booths and the Tank Car Cleaning Operation over the previous twelve (12) months; and
 - e. If the rolling 12-month total amount of VOC emissions exceeds 200 tons the owner or operator shall track VOC emissions on a daily basis. At the end of each work day, the owner or operator shall calculate the 365-day total VOC emissions from these emission units. This calculation must be done each day until the 365-day total VOC emissions from these emission units are less than 200 tons. Calculations may then be performed on a monthly basis as long as the total emissions are below 200 tons.
- B. The facility shall comply with the organic HAP limit of 1.9 lb organic HAP per gallon coating solids as specified in 40 CFR Part 63, Subpart M. The facility shall utilize one of the compliance methodologies described in 40 CFR §63.3891. The owner or operator shall:
 - a. Submit the applicable notifications in accordance with 40 CFR §63.3910 and
 - b. Submit the applicable reports in accordance with 40 CFR §63.3920.
- C. The owner or operator shall maintain the Fabric Filter (CE 9-1 and 9-2) according to the manufacturer's specifications and maintenance schedule. The owner or operator shall maintain a log of all maintenance and inspection activities performed on the Fabric Filter (CE 9-1 and 9-2). This log shall include, but is not necessarily limited to:
 - a. The date and time any inspection and/or maintenance was performed on the Fabric Filter (CE 9-1 and 9-2);

- b. Any issues identified during the inspection and the date each issue was resolved;
- c. Any issues addressed during the maintenance activities and the date each issue was resolved; and
- d. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permits 16-A-098-S2 & 16-A-099-S2
 40 CFR Part 63 Subpart M
 567 IAC 23.1(4)"cm"

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 57.5

Stack Opening, (inches, dia.): 48

Exhaust Flow Rate (scfm): 22,500

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permits 16-A-098-S2 & 16-A-099-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 Numbers: 10-1 & 10-2

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
10-1	10	N Bldg Ext Paint Drying Oven	Natural Gas	1.5 MMBtu/hr.	16-A-100-S1
10-2					16-A-101-S1

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%¹

Authority for Requirement: DNR Construction Permits 16-A-100-S1 & 16-A-101-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{2.5})

Emission Limit(s): 0.01 lb/hr

Authority for Requirement: DNR Construction Permits 16-A-100-S1 & 16-A-101-S1

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.01 lb/hr

Authority for Requirement: DNR Construction Permits 16-A-100-S1 & 16-A-101-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: DNR Construction Permits 16-A-100-S1 & 16-A-101-S1
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500 ppmv

Authority for Requirement: DNR Construction Permits 16-A-100-S1 & 16-A-101-S1
567 IAC 23.3(3)"e"

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 52.5

Stack Opening, (inches, dia.): 20

Exhaust Flow Rate (scfm): 3,280

Exhaust Temperature (°F): 200

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permits 16-A-100-S1 & 16-A-101-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: 11-1

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
11-1	11	N Bldg North Int Lining Booth	CE 11-1: Fabric Filter	Coatings	18.6 Gal/hr.	16-A-102-S2
11-2	11-H	N Bldg North Int Lining Booth Heater	CE 11-2: Fabric Filter	Natural Gas	4 MMBtu/hr.	16-A-103-S2

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%¹

Authority for Requirement: DNR Construction Permits 16-A-102-S2 & 16-A-103-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_{2.5})

Emission Limit(s): 0.068 lb/hr

Authority for Requirement: DNR Construction Permits 16-A-102-S2 & 16-A-103-S2

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.073 lb/hr

Authority for Requirement: DNR Construction Permits 16-A-102-S2 & 16-A-103-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: DNR Construction Permits 16-A-102-S2 & 16-A-103-S2
567 IAC 23.4(13)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500ppmv

Authority for Requirement: DNR Construction Permits 16-A-102-S2 & 16-A-103-S2
567 IAC 23.3(3)"e"

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): See Plant-Wide Conditions

Operational Limits, Requirements, and Associated Recordkeeping

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

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

- A. The maximum solids content of any coating or solvent used in this paint booth shall not exceed 12.25 lb/gal. The VOC emissions from the following emission units shall not exceed 240 tons per rolling 12-month period: Railcar Paint Booth (EU 1), Locomotive Paint Booth (EU 2), Lining Paint Booth (EU 3), Tank Car Cleaning Operation (EU 6), North Bldg. East Exterior Paint Booth (EU 8), North Bldg. West Exterior Paint Booth (EU 9), North Bldg. North Interior Lining (EU 11), and North Bldg. South Interior Lining (EU 12). The owner or operator shall:
 - a. Maintain safety data sheets (SDS) for all coatings and solvents used in these emission units;
 - b. At the end of each month, record the amount of each coating and solvent used, in gallons, in these paint booths;
 - c. At the end of each month, calculate and record the VOC emissions, in tons, from these paint booths assuming 100% of the VOC content in the coatings and solvents is emitted;
 - d. At the end of each month, calculate and record the total VOC emissions, in tons, from these paint booths and the Tank Car Cleaning Operation over the previous twelve (12) months; and
 - e. If the rolling 12-month total amount of VOC emissions exceeds 200 tons the owner or operator shall track VOC emissions on a daily basis. At the end of each work day, the owner or operator shall calculate the 365-day total VOC emissions from these emission units. This calculation must be done each day until the 365-day total VOC emissions from these emission units are less than 200 tons. Calculations may then be performed on a monthly basis as long as the total emissions are below 200 tons.
- B. The facility shall comply with the organic HAP limit of 1.9 lb organic HAP per gallon coating solids as specified in 40 CFR Part 63, Subpart M. The facility shall utilize one of the compliance methodologies described in 40 CFR §63.3891. The owner or operator shall:
 - a. Submit the applicable notifications in accordance with 40 CFR §63.3910 and
 - b. Submit the applicable reports in accordance with 40 CFR §63.3920.
- C. The owner or operator shall maintain the Fabric Filter (CE 11-1 and 11-2) according to the manufacturer's specifications and maintenance schedule. The owner or operator shall maintain a log of all maintenance and inspection activities performed on the Fabric Filter (CE 11-1 and 11-2). This log shall include, but is not necessarily limited to:
 - a. The date and time any inspection and/or maintenance was performed on the Fabric Filter (CE 11-1 and 11-2);

- b. Any issues identified during the inspection and the date each issue was resolved;
- c. Any issues addressed during the maintenance activities and the date each issue was resolved; and
- d. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permits 16-A-102-S2 & 16-A-103-S2
 40 CFR Part 63 Subpart M
 567 IAC 23.1(4)"cm"

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 47

Stack Opening, (inches, dia.): 27

Exhaust Flow Rate (scfm): 20,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permits 16-A-102-S2 & 16-A-103-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 Numbers: 12-1, 12-2, 12-3, & 12-4

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
12-1	12	N Bldg South Int Lining Booth	CE 12-1: Fabric Filter	Coatings	26 Gal/hr.	16-A-104-S2
12-2	12-H-1	N Bldg South Int Lining Booth Heater 1	CE 12-2: Fabric Filter	Natural Gas	4 MMBtu/hr	16-A-105-S2
12-3	12-H-2	N Bldg South Int Lining Booth Heater 2	CE 12-3: Fabric Filter	Natural Gas	4 MMBtu/hr	16-A-106-S2
12-4			CE 12-4: Fabric Filter			16-A-107-S2

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%¹

Authority for Requirement: DNR Construction Permits 16-A-104-S2, 16-A-105-S2, 16-A-106-S2, 16-A-107-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_{2.5})

Emission Limit(s): 0.09 lb/hr

Authority for Requirement: DNR Construction Permits 16-A-104-S2, 16-A-105-S2, 16-A-106-S2, 16-A-107-S2

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.111 lb/hr

Authority for Requirement: DNR Construction Permits 16-A-104-S2, 16-A-105-S2, 16-A-106-S2, 16-A-107-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: DNR Construction Permits 16-A-104-S2, 16-A-105-S2, 16-A-106-S2, 16-A-107-S2
567 IAC 23.4(13)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 500ppmv

Authority for Requirement: DNR Construction Permits 16-A-104-S2, 16-A-105-S2, 16-A-106-S2,
16-A-107-S2
567 IAC 23.3(3)"e"

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): See Plant-Wide Conditions

Operational Limits, Requirements, and Associated Recordkeeping

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

All records as required by these permits shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner. The operating requirements and associated recordkeeping requirements for these permits shall be:

- A. The maximum solids content of any coating or solvent used in this paint booth shall not exceed 18 lb/gal. The VOC emissions from the following emission units shall not exceed 240 tons per rolling 12-month period: Railcar Paint Booth (EU 1), Locomotive Paint Booth (EU 2), Lining Paint Booth (EU 3), Tank Car Cleaning Operation (EU 6), North Bldg. East Exterior Paint Booth (EU 8), North Bldg. West Exterior Paint Booth (EU 9), North Bldg. North Interior Lining (EU 11), and North Bldg. South Interior Lining (EU 12). The owner or operator shall:
 - a. Maintain safety data sheets (SDS) for all coatings and solvents used in these emission units;
 - b. At the end of each month, record the amount of each coating and solvent used, in gallons, in these paint booths;
 - c. At the end of each month, calculate and record the VOC emissions, in tons, from these paint booths assuming 100% of the VOC content in the coatings and solvents is emitted;
 - d. At the end of each month, calculate and record the total VOC emissions, in tons, from these paint booths and the Tank Car Cleaning Operation over the previous twelve (12) months; and
 - e. If the rolling 12-month total amount of VOC emissions exceeds 200 tons the owner or operator shall track VOC emissions on a daily basis. At the end of each work day, the owner or operator shall calculate the 365-day total VOC emissions from these emission units. This calculation must be done each day until the 365-day total VOC emissions from these emission units are less than 200 tons. Calculations may then be performed on a monthly basis as long as the total emissions are below 200 tons.
- B. The facility shall comply with the organic HAP limit of 1.9 lb organic HAP per gallon coating solids as specified in 40 CFR Part 63, Subpart M. The facility shall utilize one of the compliance methodologies described in 40 CFR §63.3891. The owner or operator shall:

- a. Submit the applicable notifications in accordance with 40 CFR §63.3910 and
- b. Submit the applicable reports in accordance with 40 CFR §63.3920.
- C. The owner or operator shall maintain the Fabric Filters (CE 12-1, 12-2, 12-3, and 12-4) according to the manufacturer’s specifications and maintenance schedule. The owner or operator shall maintain a log of all maintenance and inspection activities performed on the Fabric Filters (CE 12-1, 12-2, 12-3, and 12-4). This log shall include, but is not necessarily limited to:
 - a. The date and time any inspection and/or maintenance was performed on the Fabric Filters (CE 12-1, 12-2, 12-3, and 12-4);
 - b. Any issues identified during the inspection and the date each issue was resolved;
 - c. Any issues addressed during the maintenance activities and the date each issue was resolved; and
 - d. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permits 16-A-104-S2, 16-A-105-S2, 16-A-106-S2, 16-A-107-S2
 40 CFR Part 63 Subpart M
 567 IAC 23.1(4)"cm"

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 46.5
 Stack Opening, (inches, dia.): 40
 Exhaust Flow Rate (scfm): 20,000
 Exhaust Temperature (°F): Ambient
 Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permits 16-A-104-S2, 16-A-105-S2, 16-A-106-S2, 16-A-107-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 <input type="checkbox"/> No <input checked="" type="checkbox"/>
Facility Maintained Operation & Maintenance Plan Required?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Compliance Assurance Monitoring (CAM) Plan Required?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 13-1 & 13-2

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
13-1	13	Exterior Blast Booth	CE 13: Dust Collector	Steel Grit	7,000 lb/hr	16-A-108-S2
13-2						16-A-109-S2

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%¹

Authority for Requirement: DNR Construction Permits 16-A-108-S2 & 16-A-109-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_{2.5})

Emission Limit(s): 0.01 lb/hr

Authority for Requirement: DNR Construction Permits 16-A-108-S2 & 16-A-109-S2

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.021 lb/hr

Authority for Requirement: DNR Construction Permits 16-A-108-S2 & 16-A-109-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.35 lb/hr, 0.1 gr/scf

Authority for Requirement: DNR Construction Permits 16-A-108-S2 & 16-A-109-S2
567 IAC 23.3(2)"a"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.05 gr/scf

Authority for Requirement: 567 IAC 23.4(6)

Operational Limits, Requirements, and Associated Recordkeeping

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

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

- A. The owner or operator shall maintain the Dust Collector (CE 13) according to the manufacturer's specifications and maintenance schedule. The owner or operator shall maintain a log of all maintenance and inspection activities performed on the Dust Collector (CE 13). This log shall include, but is not necessarily limited to:
 - a. The date and time any inspection and/or maintenance was performed on the Dust Collector (CE 13);
 - b. Any issues identified during the inspection and the date each issue was resolved;
 - c. Any issues addressed during the maintenance activities and the date each issue was resolved; and
 - d. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permits 16-A-108-S2 & 16-A-109-S2

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): Vents Inside

Stack Opening, (inches, dia.): Vents Inside

Exhaust Flow Rate (scfm): Vents Inside

Exhaust Temperature (°F): Ambient

Discharge Style: Vents Inside

Authority for Requirement: DNR Construction Permits 16-A-108-S2 & 16-A-109-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: 14

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
14	Interior Blast Bay	CE 14: Dust Collector CE 14-1: HEPA Filter	Steel Grit	7,000 lb/hr.	16-A-110-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: Opacity

Emission Limit(s): 40%¹

Authority for Requirement: DNR Construction Permit 16-A-110-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_{2.5})

Emission Limit(s): 0.02 lb/hr

Authority for Requirement: DNR Construction Permit 16-A-110-S2

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.043 lb/hr

Authority for Requirement: DNR Construction Permit 16-A-110-S2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.70 lb/hr, 0.1 gr/scf

Authority for Requirement: DNR Construction Permit 16-A-110-S2
567 IAC 23.3(2)"a"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.05 gr/scf

Authority for Requirement: 567 IAC 23.4(6)

Operational Limits, Requirements, and Associated Recordkeeping

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

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

- A. The owner or operator shall maintain the Dust Collector (CE 14) and the HEPA Filter (CE 14-1) according to the manufacturer's specifications and maintenance schedule. The owner or operator shall maintain a log of all maintenance and inspection activities performed on the Dust Collector (CE 14) and the HEPA Filter (CE 14-1). This log shall include, but is not necessarily limited to:
 - a. The date and time any inspection and/or maintenance was performed on the Dust Collector (CE 14) and the HEPA Filter (CE 14-1);
 - b. Any issues identified during the inspection and the date each issue was resolved;
 - c. Any issues addressed during the maintenance activities and the date each issue was resolved; and
 - d. Identification of the staff member performing the maintenance or inspection.

Authority for Requirement: DNR Construction Permit 16-A-110-S2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): Vents Inside

Stack Opening, (inches, dia.): Vents Inside

Exhaust Flow Rate (scfm): Vents Inside

Exhaust Temperature (°F): Ambient

Discharge Style: Vents Inside

Authority for Requirement: DNR Construction Permit 16-A-110-S1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 14-1 & 14-2

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
14-1	NBP	North Blast and Paint Building	Steel Grit	NA	18-A-124
14-2				NA	18-A-125

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 18-A-124 & 18-A-125
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_{2.5})

Emission Limit(s): 0.02 lb/hr

Authority for Requirement: DNR Construction Permit 18-A-124 & 18-A-125

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.043 lb/hr

Authority for Requirement: DNR Construction Permit 18-A-124 & 18-A-125

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.70 lb/hr, 0.1 gr/scf

Authority for Requirement: DNR Construction Permit 18-A-124 & 18-A-125
567 IAC 23.3(2)"a"

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.05 gr/scf

Authority for Requirement: 567 IAC 23.4(6)

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft., from the ground): 38.75

Stack Opening, (inches, dia.): 36

Exhaust Flow Rate (scfm): 23,500

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 18-A-124 & 18-A-125

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: 17-1

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
17-1	17	North Mechanical Shop (32 welders, 16 torch cutters, 4 plasma cutters)	Welding Wire, Cutting Rods & Wires	3,736 weld inches/hr; 653 cut inches/hr	16-A-111-S1
17-2					16-A-112-S1
17-3					16-A-113-S1
17-4					16-A-114-S1

Applicable Requirements

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

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

Pollutant: Opacity

Emission Limit(s): 40%¹

Authority for Requirement: DNR Construction Permits 16-A-111-S1, 16-A-112-S1, 16-A-113-S1, 16-A-114-S1
567 IAC 23.3(2)"d"

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

Pollutant: Particulate Matter (PM_{2.5})

Emission Limit(s): 0.25 lb/hr

Authority for Requirement: DNR Construction Permits 16-A-111-S1, 16-A-112-S1, 16-A-113-S1, 16-A-114-S1

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.84 lb/hr

Authority for Requirement: DNR Construction Permits 16-A-111-S1, 16-A-112-S1, 16-A-113-S1, 16-A-114-S1

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.88 lb/hr, 0.1 gr/scf

Authority for Requirement: DNR Construction Permits 16-A-111-S1, 16-A-112-S1, 16-A-113-S1, 16-A-114-S1
567 IAC 23.3(2)"a"

Operational Limits, Requirements, and Associated Recordkeeping

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

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

- A. The average hourly welding rate in the North Mechanical Shop shall not exceed 3,736 inches welded per hour, on a daily basis. The average hourly cutting rate in the North Mechanical Shop shall not exceed 653 inches cut per hour, on a daily basis. On a daily basis, the owner or operator shall:
 - a. Record the number of hours that the welders in the North Mechanical Shop were operated;
 - b. Record the number of hours that the plasma cutters in the North Mechanical Shop were operated;
 - c. Record the number of inches cut and inches welded in the North Mechanical Shop; and
 - d. Calculate and record the average number of inches cut per hour and average number of inches welded per hour.
- B. The welding electrode types used in the North Mechanical Shop shall be limited to a maximum emission factor of 35 pounds of PM₁₀ emissions per thousand pounds of electrode consumed (lb/10³ lb), as specified in Table 12.19-1 of EPA's *AP-42: Compilation of Air Emission Factors*. The owner or operator shall maintain documentation that specifies each type of electrode used in the South Mechanical Shop and the corresponding AP-42 PM₁₀ emission factor. The owner or operator may also use additional welding electrode approved by the Iowa DNR.

Authority for Requirement: DNR Construction Permits 16-A-111-S1, 16-A-112-S1, 16-A-113-S1, 16-A-114-S1

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 47

Stack Opening, (inches, dia.): 42

Exhaust Flow Rate (scfm): 12,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical, Unobstructed

Authority for Requirement: DNR Construction Permits 16-A-111-S1, 16-A-112-S1, 16-A-113-S1,
16-A-114-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)

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: Links to Standards

- A. 40 CFR Part 63 Subpart A – *General Provisions*
<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.10.63.a>

- B. 40 CFR Part 63 Subpart Mmmm – National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products
<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.15.63.mmmm>