

AIR POLLUTION CONTROL PERMIT TO CONSTRUCT

Permittee Name: North American Iron LLC	Permit Number: ACP-18334 v1.0
Permittee Address: 21 Main Street South Minot, ND 58701	Source Description: PSD Major Source HAP Major Source Future Title V Source
Source Name & Location: Minot Merchant Pig Iron Plant Minot, ND 58701 Lat/Long: 48.277896, -101.234412 Ward County	Source Type: Pig Iron Plant NAICS: 331110 SIC: 3399
Date of Application:	February 13, 2026

Pursuant to Chapter 23.1-06 of the North Dakota Century Code, the North Dakota Air Pollution Control Rules (North Dakota Administrative Code [NDAC] 33.1-15), and in reliance on statements and representations heretofore made by the permittee (i.e., owner) designated above, a Permit to Construct (PTC, also referred to as 'permit') is hereby issued authorizing such permittee to construct and initially operate the source unit(s) listed in Condition 1 at the location designated above. The source may be operated under this PTC until a Permit to Operate (PTO) is issued. This PTC is subject to all applicable rules and orders now or hereafter in effect of the North Dakota Department of Environmental Quality (Department), state and federal regulations, and to any conditions specified below:

Date: _____

James L. Semerad
Director
Division of Air Quality

1. Project and Facility Emission Units:

ACP-18334 v1.0_AQEA includes a project description, the facility wide emission profile and regulation analysis associated with this permit.

Table 1-1 lists the emission units associated with the Project. **Material handling and insignificant units are in italics.**

Table 1-1: Project Emission Units

Nominal Rating/ Material	Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment	NSPS 60 Subpart	MACT 63 Subpart
Power Plant						
12,481 bhp/hr each; 9,065 kWe each	Forty-two (42) natural-gas fired generator engines, four-stroke lean burn (4SLB)	RICE-1 through RICE-42	RICE-1 through RICE-42	Selective catalytic reduction (SCR) and oxidation catalyst (OC)	JJJJ	ZZZZ
Raw Material Receipt and Storage						
Pre-Concentrate	<i>Railcar tipper #1 to bin #1</i>	<i>PC-MH-01</i>	<i>PC-BH-01</i>	Baghouse (BH)	LL	RRRRR
	<i>Railcar tipper #2 to bin #2</i>	<i>PC-MH-02</i>	<i>PC-BH-02</i>		LL	RRRRR
	<i>Bin #1 to conveyor #1</i>	<i>PC-MH-03</i>	<i>PC-BV-03</i>	Bin vent (BV)	LL	RRRRR
	<i>Bin #2 to conveyor #2</i>	<i>PC-MH-04</i>	<i>PC-BV-04</i>		LL	RRRRR
	<i>Conveyor #1 to stacking conveyor</i>	<i>PC-MH-05</i>	<i>PC-BV-05</i>		LL	RRRRR
	<i>Conveyor #2 to stacking conveyor</i>	<i>PC-MH-06</i>	<i>PC-BV-06</i>		LL	RRRRR
	<i>Stacking conveyor to stack/reclaim conveyor #1</i>	<i>PC-MH-07</i>	<i>PC-BV-07</i>		LL	RRRRR
	<i>Stacking conveyor to stack/reclaim conveyor #2</i>	<i>PC-MH-08</i>	<i>PC-BV-08</i>		LL	RRRRR

Nominal Rating/ Material	Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment	NSPS 60 Subpart	MACT 63 Subpart
	Stack/reclaim conveyor #1 to/from stockpiles	PC-MH-09	PC-MH-09	Fugitive dust control plan (FDCP)	LL	RRRRR
	Stack/reclaim conveyor #2 to/from stockpiles	PC-MH-10	PC-MH-10		LL	RRRRR
	Four pre-concentrate stockpiles	PC-SP-01 through PC-SP-04	PC-SP-01 through PC-SP-04			RRRRR
	Stack reclaim conveyor #1 to conveyor	PC-MH-11	PC-BV-11	BV	LL	RRRRR
	Stack reclaim conveyor #2 to conveyor	PC-MH-12	PC-BV-12		LL	RRRRR
	Conveyor to rotary kiln feed conveyor	PC-MH-13	PC-BV-13		LL	RRRRR
Roasting						
375 MMBtu/hr	Rotary kiln #1, natural gas-fired	RK-01	RK-CE-01	Low NO _x burners (LNB), good combustion practices (GCP), electrostatic precipitator (ESP), BH, & selective catalytic reduction (SCR), activated carbon injection (ACI)	LL	Case-by-Case
375 MMBtu/hr	Rotary kiln #2, natural gas-fired	RK-02		LL	Case-by-Case	

Nominal Rating/ Material	Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment	NSPS 60 Subpart	MACT 63 Subpart
Roasted Pre-Concentrate	Rotary cooler #1	RC-01	RC-01	ESP	LL	Case-by-Case
	Rotary cooler #2	RC-02	RC-02		LL	Case-by-Case
Roasted Pre-Concentrate	Rotary kiln esp #1 & #2 truck loadout	R-MH-01	RPC-MH-01	FDCP	LL	
	Rotary kiln baghouse #1 & #2 truck loadout	R-MH-02	RPC-MH-02		LL	
Concentrating						
Hematite	Emergency concentrate stockpile #1	C-SP-01	C-SP-01	FDCP	LL	
Magnetite	Emergency concentrate stockpile #2	C-SP-02	C-SP-02		LL	
Hematite	Stack/reclaim conveyor #1 to/from stockpiles	C-MH-01	C-MH-01		LL	
Magnetite	Stack/reclaim conveyor #2 to/from stockpiles	C-MH-02	C-MH-02		LL	
Tailings	Tailings stockpile	T-SP-01	T-SP-01			
Pellet Plant						
Lime	Limestone storage bin	PP-MH-01	PP-BV-01	BV	OOO	
Bentonite	Bentonite storage bin	PP-MH-02	PP-BV-02		OOO	
Concentrate	Recycle dust storage bin	PP-MH-03	PP-BV-03		LL	RRRRR
	Concentrate feed storage bin	PP-MH-04	PP-BV-04	LL	RRRRR	
	Pellet plant mixer feed conveyor	PP-MH-05	PP-BH-05	BH	LL	RRRRR

Nominal Rating/ Material	Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment	NSPS 60 Subpart	MACT 63 Subpart
373 MMBtu/hr ^A	Straight grate indurating furnace	INF-01	INF-01	LNB, ESP, circulating dry scrubber (CDS)		RRRRR
Fired Pellets	Hearth layer separator & product screening	PP-MH-06	PP-BV-06	BV	LL	RRRRR
	Indurating furnace dedusting	PP-MH-07	PP-BH-07	BH	LL	RRRRR
	Conveyor transfer #1 from diverter to emergency pellet storage building	PP-MH-08	PP-BV-08	BV	LL	RRRRR
	Conveyor transfer #2 from diverter to emergency pellet storage building	PP-MH-09	PP-BV-09		LL	RRRRR
	Conveyor transfer from emergency pellet storage building to DRI feed conveyor	PP-MH-10	PP-BV-10		LL	RRRRR
	Conveyor transfers to DRI feed conveyor from furnace & emergency pellet storage building	PP-MH-11	PP-BV-11		LL	RRRRR
	Emergency pellet storage building	PP-SB-01	PP-SB-01	BH	LL	RRRRR
	Fired pellets to stockpile	PP-MH-12	PP-MH-12	FDCCP	LL	RRRRR
	Fired pellet stockpile	PP-SP-01	PP-SP-01			RRRRR

Nominal Rating/ Material	Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment	NSPS 60 Subpart	MACT 63 Subpart
	Pellet plant cooling tower	CT-PP	CT-PP	High-efficiency drift eliminators		
Direct Reduced Iron						
Fired Pellets	<i>Fired pellet loader to hopper</i>	<i>DRI-MH-01</i>	<i>DRI-MH-01</i>	FDCCP	LL	RRRRR
Reverts	<i>Remet loader to hopper</i>	<i>DRI-MH-02</i>	<i>DRI-MH-02</i>			RRRRR
	<i>Remet hopper to DRI feed conveyor</i>	<i>DRI-MH-03</i>	<i>DRI-BV-03</i>	BV		RRRRR
Fired Pellets	<i>Fired pellet & remet return bins to DRI feed conveyor</i>	<i>DRI-MH-04</i>	<i>DRI-BH-04</i>	BH	LL	RRRRR
	<i>DRI feed conveyor transfers & fines screening</i>	<i>DRI-MH-05</i>	<i>DRI-BH-05</i>		LL	RRRRR
	<i>Fines conveyor to bin</i>	<i>DRI-MH-06</i>	<i>DRI-BH-06</i>		LL	RRRRR
	<i>Pellet fines bin</i>	<i>DRI-MH-07</i>	<i>DRI-BH-07</i>		LL	RRRRR
	<i>Pellet fines bin loadout to truck</i>	<i>DRI-MH-08</i>	<i>DRI-MH-08</i>	FDCCP	LL	RRRRR
	<i>DRI feed conveyor transfers & cement coating</i>	<i>DRI-MH-09</i>	<i>DRI-BH-09</i>	BH	LL	RRRRR
	<i>DRI feed conveyor transfers & storage/surge bins</i>	<i>DRI-MH-10</i>	<i>DRI-BH-10</i>		LL	RRRRR
	<i>DRI feed charging bin #1</i>	<i>DRI-MH-11</i>	<i>DRI-BV-11</i>	BV	LL	RRRRR
	<i>DRI feed charging bin #2</i>	<i>DRI-MH-12</i>	<i>DRI-BV-12</i>		LL	RRRRR
	<i>DRI feed charging bin #3</i>	<i>DRI-MH-13</i>	<i>DRI-BV-13</i>		LL	RRRRR

Nominal Rating/ Material	Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment	NSPS 60 Subpart	MACT 63 Subpart
	<i>DRI feed charging bin #4</i>	<i>DRI-MH-14</i>	<i>DRI-BV-14</i>		LL	RRRRR
1,436 MMBtu/hr	Process gas heater (PGH)	PGH-01	PGH-01	LNB & SCR		DDDDD
20.9 MMBtu/hr	Pneumatic transport system (PTS) heater	PTS-01	PTS-01	LNB		
	PTS depressurization	DPS-01	DPS-01	Wet scrubber (WS)	LL	Case-by-Case
	Cold product depressurization	CPD-01	CPD-01	WS	LL	Case-by-Case
CDRI Pellets	<i>CDRI/remet conveyor #1 to conveyor #2</i>	<i>DRI-MH-15</i>	<i>DRI-BH-15</i>	BH		
	<i>CDRI/remet conveyor #2 to cadre silos/conveyor & remet conveyor</i>	<i>DRI-MH-16</i>	<i>DRI-BH-16</i>			
Reverts	<i>Remet conveyor to remet bin</i>	<i>DRI-MH-17</i>	<i>DRI-BH-17</i>			
	<i>Remet overflow conveyor to stockpile</i>	<i>DRI-MH-18</i>	<i>DRI-MH-18</i>	FDCP		
	<i>Remet overflow stockpile</i>	<i>DRI-SP-01</i>	<i>DRI-SP-01</i>			
27.6 MMBtu/hr	Carbon dioxide capture vent	CO2-01	CO2-01	LNB, wet flue gas desulfurization scrubber (WFGD)		
	Flare	FL-01	FL-01	N/A		Case-by-Case
132.1 MMBtu/hr	Package boiler	BOIL-01	BOIL-01	LNB with flue gas recirculation or ultra-LNB	Db	DDDDD

Nominal Rating/ Material	Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment	NSPS 60 Subpart	MACT 63 Subpart
	DRI quench cooling water	QCW-01	QCW-01	High-efficiency drift eliminators		
Open Slag Bath Furnace						
OSBF Additives	<i>OSBF additive bins & conveyor #1A/B</i>	<i>OSBF-MH-01</i>	<i>OSBF-BH-01</i>	BH	000	
	<i>OSBF additive conveyor #1A/B to conveyor #2</i>	<i>OSBF-MH-02</i>	<i>OSBF-BH-02</i>		000	
	<i>OSBF emergency additive loading to hopper</i>	<i>OSBF-MH-03</i>	<i>OSBF-MH-03</i>	FDCP	000	
OSBF Additives	<i>OSBF additive conveyor #2 to conveyor #3</i>	<i>OSBF-MH-04</i>	<i>OSBF-BH-04</i>	BH	000	
	<i>OSBF additive conveyor #3 to briquetting & conveyors #4A/B</i>	<i>OSBF-MH-05</i>	<i>OSBF-BH-05</i>		000	
	<i>OSBF additives conveyor #4A/B to OSBF feed conveyor</i>	<i>OSBF-MH-06</i>	<i>OSBF-BH-06</i>		000	
OSBF Feed & Tapping	OSBF #1 material feed & tapping	OSBF-01	OSBF-BF-01	BH ^B		Case-by-Case
	OSBF #2 material feed & tapping	OSBF-02	OSBF-BF-02			Case-by-Case
OSBF Filter Dust	<i>OSBF #1 bagfilter system dust silo</i>	<i>OSBF-MH-07</i>	<i>OSBF-BH-07</i>	BH		
	<i>OSBF #2 bagfilter system dust silo</i>	<i>OSBF-MH-08</i>	<i>OSBF-BH-08</i>			

Nominal Rating/ Material	Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment	NSPS 60 Subpart	MACT 63 Subpart
	OSBF #1 bagfilter dust silo loadout to truck	OSBF-MH-09	OSBF-MH-09	FDCP		
	OSBF #2 bagfilter dust silo loadout to truck	OSBF-MH-10	OSBF-MH-10			
Sodium Bicarbonate	OSBF #1 dry scrubber sodium bicarbonate injection	OSBF-MH-11	OSBF-BH-11	BH	000	
	OSBF #2 dry scrubber sodium bicarbonate injection	OSBF-MH-12	OSBF-BH-12		000	
OSBF Filter Dust	OSBF#1 dry scrubber dust silo	OSBF-MH-13	OSBF-BH-13	FDCP		
	OSBF #2 dry scrubber dust silo	OSBF-MH-14	OSBF-BH-14			
	OSBF #1 dry scrubber dust silo loadout to truck	OSBF-MH-15	OSBF-MH-15			
	OSBF #2 dry scrubber dust silo loadout to truck	OSBF-MH-16	OSBF-MH-16			
Casting						
8.0 MMBtu/hr each	Casting unit #1 & burner	FE-01	FE-BH-01	BH ^c		Case-by-Case
	Casting unit #2 & burner	FE-02	FE-BH-02			Case-by-Case
	Casting unit #3 & burner	FE-03	FE-BH-03			Case-by-Case
	Casting unit #4 & burner	FE-04	FE-BH-04			Case-by-Case

Nominal Rating/ Material	Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment	NSPS 60 Subpart	MACT 63 Subpart
Molten Pig Iron	Torpedo car/refractory repair	TCR-01	TCR-BH-01			
Slag						
Molten Slag	Slag granulator #1	SG-01	SG-01	Water spray		Case-by- Case
	Slag granulator #2	SG-02	SG-02			Case-by- Case
Slag	<i>Slag dewatering silo conveyor to stockpile/pit</i>	<i>SG-MH-01</i>	<i>SG-MH-01</i>	FDCP		
	<i>Slag dewatering clarifier loadout to stockpile/pit</i>	<i>SG-MH-02</i>	<i>SG-MH-02</i>			
	<i>Granulated slag stockpile</i>	<i>SG-SP-01</i>	<i>SG-SP-01</i>			
Molten Slag	Slag pit #1	SG-PIT-01	SG-PIT-01	Water spray		Case-by- Case
	Slag pit #2	SG-PIT-02	SG-PIT-02			Case-by- Case
Slag	<i>Slag stockpile/pit loadout to truck/rail</i>	<i>SP-MH-03</i>	<i>SP-MH-03</i>	FDCP		
	Slag granulator #1 cooling tower	CT-SG-01	CT-SG-01	High-efficiency drift eliminators		
	Slag granulator #2 cooling tower	CT-SG-02	CT-SG-02	High-efficiency drift eliminators		
	Slag granulation condensate cooling tower	CT-SGC	CT-SGC	High-efficiency drift eliminators		

Nominal Rating/ Material	Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment	NSPS 60 Subpart	MACT 63 Subpart
Facility						
	Water treatment plant cooling tower	CT-WTP	CT-WTP	High-efficiency drift eliminators		
755 bhp/hr; 563 kWe	Emergency generator	EG-01	EG-01	Tier III	III	ZZZZ
327 bhp/hr; 244 kWe	Fire pump	FP-01	FP-01	Tier III	III	ZZZZ
	Fugitive piping components	FUG-01	FUG-01	Leak detection and repair (LDAR) program		
	Fugitive haul roads	FUG-02	FUG-02	FDCP		

- ^A Calculated from fired pellet production rate, maximum heat input rating, and natural gas high heating value.
- ^B One feed (inlet of OSBF) and one fume (outside the OSBF) collection hood. The collection hoods will have small amount of fugitive emissions that cannot be captured. The feed and fume collection hoods route to a common baghouse. Additionally, OSBF #1/#2 tail gas is collected by an enclosed ventilation system. This tail gas is cleaned (filtered and scrubbed for acid gas) and sent to the PGH as an addition fuel source. Filtered material is sent to EU OSBF-MH-13/14.
- ^C Collection hood routes captured gas to baghouse; will have small amount of fugitive emissions that cannot be captured.

2. Applicable Standards, Restrictions and Miscellaneous Conditions:

A. New Source Performance Standards (NSPS):

The permittee must comply with all applicable requirements of the following NSPS subparts, in addition to Subpart A, as referenced in NDAC 33.1-15-12 and Title 40 of the Code of Federal Regulations (CFR) Part 60. See Table 1-1 for EUs and applicable NSPS.

- 1) NSPS Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units
- 2) NSPS LL – Standards of Performance for Metallic Mineral Processing Plants
- 3) NSPS OOO – Standards of Performance for Nonmetallic Mineral Processing Plants
- 4) NSPS IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
- 5) NSPS JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

B. National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Source Categories/Maximum Achievable Control Technology (MACT):

The permittee must comply with all applicable requirements of the following MACT subparts, in addition to Subpart A, as referenced in NDAC 33.1-15-22 and 40 CFR 63. See Table 1-1 for EUs and applicable MACT.

- 1) MACT B – Requirements for Control Technology Determinations for Major Sources in Accordance With Clean Air Act Sections, Sections 112(g) and 112(j) (Case-by-Case MACT)
- 2) MACT ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
- 3) MACT DDDDD – National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters
- 4) MACT RRRRR – National Emission Standards for Hazardous Air Pollutants for Taconite Ore Processing

C. Fuel Restrictions:

- 1) Gas combustion devices (EUs RICE-1 through RICE-42, RK-01 & RK-02, PTS-01, BOIL-01, & FE-01, FE-02, FE-03, & FE-04 burners) and

emissions control devices (EU FL-1 & CO2-01 pilot and supplemental fuel) are restricted to combusting pipeline quality natural gas. *Note: natural gas has an expected average stack concentration of <0.5 ppmvd SO₂ @ 0% O₂.*

- 2) PGH heater (EU PGH-01) is restricted to combusting pipeline quality natural gas, DRI tail gas, OSBF tail gas, and reducing gas. *Note: natural gas DRI tail gas, and OSBF tail gas exhaust is inherently low SO₂, with an expected combined stack concentration of <5 ppmvd SO₂ @ 0% O₂.*
- 3) Emergency engines (EUs EG-01 & FP-01) are restricted to combusting ultra-low sulfur diesel (ULSD) fuel containing no more than 0.0015 percent sulfur by weight (15 ppmw).

Applicable requirement: 33.1-15-15 (BACT)

D. OSBF #1 & #2 Material Feed & Tapping (EUs OSBF-01 & OSBF-02):

- 1) The open slag bath furnaces (OSBF) shall be designed and operated following industry best practices.
- 2) Operators shall receive annual training on proper OSBF tapping operations.
- 3) The collection hood shall be operated at all times when the OSBF is in operation, even when not tapping.

Applicable requirement: 33.1-15-15 (BACT), 33.1-15-22 (MACT B)

E. Slag Granulator #1 & #2 (EUs SG-01 & SG-02):

- 1) The slag granulators shall be designed with condensation towers that use high-pressure water jets, acting as a wet scrubbing device to reduce gaseous emissions.
- 2) The wet scrubbing system shall be operated following manufacture recommendations.

Applicable requirement: 33.1-15-15 (BACT), 33.1-15-22 (MACT B)

F. Slag Pit #1 & #2 (EUs SG-PIT-01 & SG-PIT-02):

- 1) The slag pits shall only be operated when the slag granulators are unavailable.
- 2) The slag pits shall be designed and operated of following industry best practices.
 - a) Wetting of the slag after cooling but before slag removal shall be done when appropriate (i.e., dry conditions).

- 3) Opacity is limited to 10% (six-minute average) during slag removal (e.g., processing, handling, storage).

Applicable requirement: 33.1-15-15 (BACT), 33.1-15-22 (MACT B)

G. Material Handling:

Material handling units (EUs PC-MH-01 through PC-MH-08, PC-MH-11 through PC-MH-13, PP-MH-01 through PP-MH-11, PP-SB-01, DRI-MH-03 through DRI-MH-07, DRI-MH-09 through MH-17, OSBF-MH-01, OSBF-MH-02, OSBF-MH-04 through OSBF-MH-08, OSBF-MH-11 through OSBF-MH-14, & TCR-01) shall be equipped with a fabric filter (i.e., bin vent or baghouse) designed to reduce exhaust gas particulate matter (PM/PM₁₀/PM_{2.5}) concentration to 0.002 grains per dry standard cubic feet (gr/dscf).

Applicable requirement: 33.1-15-15 (BACT)

H. Fugitive Dust Control Plan:

Fugitive dust sources (EUs PC-MH-09, PC-MH-10, PC-SP-01 through PC-SP-04, R-MH-01, R-MH-02, C-SP-01, C-SP-02, C-MH-01, C-MH-02, T-SP-01, PP-MH-12, PP-SP-01, DRI-MH-01, DRI-MH-02, DRI-MH-08, DRI-MH-18, DRI-SP-01, OSBF-MH-03, OSBF-MH-09, OSBF-MH-10, OSBF-MH-15, OSBF-MH-16, SG-MH-01, SG-MH-02, SG-SP-01, SP-MH-03, & FUG-02) shall be operated following a fugitive dust control plan (FDCP) which is to be developed and implemented by the permittee upon start-up of the facility. The FDCP must be submitted to the Department upon request.

The FDCP shall require implementation of industry best practices and describe the measures which will be taken to minimize fugitive dust emissions to the extent practical by taking into consideration each fugitive dust source unique characteristics (location, water availability, compatibility with dust suppressants, weather, nature of equipment, type of operation).

Applicable requirement: 33.1-15-15 (BACT), NDAC 33.1-15-17

I. Leak Detection and Repair (EU FUG-1):

The permittee shall operate a leak detection and repair (LDAR) program to identify and repair leaks from equipment in a timely manner. Equipment which may generate fugitive emissions from leaks includes valves, pumps, compressors, connectors, pressure relief devices, and other miscellaneous equipment. The LDAR program is to be developed and implemented by the permittee upon start-up of the facility and must be submitted to the Department upon request.

Applicable requirement: 33.1-15-15 (BACT)

J. Cooling Towers Design Requirements (EUs CT-PP, QCW-01, CT-SG-01, CT-SG-02, CT-SGC, & CT-WTP):

The cooling towers shall be equipped with and operated with mist eliminators that are guaranteed to limit drift to 0.0005% or less of the circulating flow.

Applicable requirement: 33.1-15-15 (BACT)

K. Emergency Engines (EUs EG-01 & FP-01):

For engines to be considered emergency stationary reciprocating internal combustion engines (RICE) under the RICE rules, engine operations must comply with the non-emergency operating hour limits as specified in 40 CFR 60, Subpart IIII. There is no time limit on the use of emergency stationary RICE in emergency situations. The potential to emit for an emergency stationary RICE is based on operating no more hours per year than is allowed by 40 CFR 60, Subpart IIII, except for emergency situations.

Applicable requirement: 33.1-15-12 (NSPS IIII)

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3. Emission Unit Limits:

Emission limits from the operation of the source unit(s) identified in Table 1-1 of this PTC are as follows in Table 3-1. Source units not listed are subject to the applicable emission limits specified in NDAC 33.1-15.

Table 3-1: Summary of Permit Emission Limits

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Pollutant / Parameter	Emission Limit ^A	NDAC Applicable Requirement
Natural-gas fired generator engines	RICE-1 through RICE-42	RICE-1 through RICE-42	NO _x	0.07 g/hr-hr ^{B, C}	33.1-15-15.01.2 (BACT)
			CO	0.07 g/hr-hr ^{B, C}	33.1-15-15.01.2 (BACT)
			SO ₂	Condition 2.C.1	33.1-15-15.01.2 (BACT)
			PM/PM ₁₀ /PM _{2.5}	Condition 2.C.1	33.1-15-15.01.2 (BACT)
			VOC	0.07 g/hr-hr ^{B, C}	33.1-15-15.01.2 (BACT)
			Formaldehyde	14 ppmvd @ 15% O ₂ ^D	33.1-15-22-03 (ZZZZ)
			Opacity	20% ^E	33.1-15-03-02
Rotary kiln #1 & #2	RK-01 & RK-02	RK-CE-01	NO _x	0.054 lb/MMBtu (24-hr r.a.)	33.1-15-15.01.2 (BACT)
			CO	0.08 lb/MMBtu	33.1-15-15.01.2 (BACT)
			SO ₂	Condition 2.C.1	33.1-15-15.01.2 (BACT)
			PM/PM ₁₀ /PM _{2.5}	0.004/0.008/0.008 gr/dscf	33.1-15-15.01.2 (BACT)
			VOC	0.0054 lb/MMBtu	33.1-15-15.01.2 (BACT)
			Hg	55 lb/MMton	33.1-15-22-03 (B)
			Opacity	7%	33.1-15-12 (LL)
Rotary cooler #1 & #2	RC-01 & RC-02	RC-01 & RC-02	PM/PM ₁₀ /PM _{2.5}	0.004/0.008/0.008 gr/dscf	33.1-15-15.01.2 (BACT)
			Opacity	7%	33.1-15-12 (LL)

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Pollutant / Parameter	Emission Limit ^A	NDAC Applicable Requirement
Straight grate indurating furnace	INF-01	INF-01	NO _x	0.75 lb/MMBtu (30-day r.a.)	33.1-15-15.01.2 (BACT)
			CO	0.039 lb/short ton fired pellets	33.1-15-15.01.2 (BACT)
			SO ₂	0.064 lb/short ton fired pellets (30-day r.a.)	33.1-15-15.01.2 (BACT)
			PM/PM ₁₀ /PM _{2.5}	0.004/0.008/0.007 gr/dscf	33.1-15-15.01.2 (BACT)
			VOC	0.025 lb/short ton fired pellets	33.1-15-15.01.2 (BACT)
			Hg	2.6×10^{-6} lb/long ton Pellets	33.1-15-22-03 (RRRRR)
			HCl	4.4×10^{-4} lb/long ton Pellets	33.1-15-22-03 (RRRRR)
			HF	3.3×10^{-4} lb/long ton Pellets	33.1-15-22-03 (RRRRR)
			Opacity	20% ^E	33.1-15-03-02
Process gas heater (PGH)	PGH-01	PGH-01	NO _x	0.01 lb/MMBtu (30-day r.a.)	33.1-15-15.01.2 (BACT)
			CO	0.035 lb/MMBtu (30-day r.a.)	33.1-15-15.01.2 (BACT)
			SO ₂	Condition 2.C.2	33.1-15-15.01.2 (BACT)
			PM/PM ₁₀ /PM _{2.5}	0.0085 lb/MMBtu	33.1-15-15.01.2 (BACT)
			VOC	N/A ^F	33.1-15-15.01.2 (BACT)
			Opacity	20% ^E	33.1-15-03-02
Pneumatic transport system (PTS) heater	PTS-01	PTS-01	NO _x	0.049 lb/MMBtu	33.1-15-15.01.2 (BACT)
			CO	0.037 lb/MMBtu	33.1-15-15.01.2 (BACT)
			SO ₂	Condition 2.C.1	33.1-15-15.01.2 (BACT)
			PM/PM ₁₀ /PM _{2.5}	0.0075 lb/MMBtu	33.1-15-15.01.2 (BACT)
			VOC	0.0054 lb/MMBtu	33.1-15-15.01.2 (BACT)
			Opacity	20% ^E	33.1-15-03-02

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Pollutant / Parameter	Emission Limit ^A	NDAC Applicable Requirement
PTS depressurization & cold product depressurization	DPS-01 & CPD-01	DPS-01 & CPD-01	PM/PM ₁₀ /PM _{2.5}	0.0075 gr/dscf	33.1-15-15.01.2 (BACT)
Carbon dioxide capture vent	CO2-01	CO2-01	CO	0.08 lb/MMBtu	33.1-15-15.01.2 (BACT)
Flare	FL-01	FL-01	Opacity	0% (No vis. 5 min per 2 hrs)	33.1-15-15.01.2 (BACT)
Package boiler	BOIL-01	BOIL-01	NO _x	0.02 lb/MMbtu	33.1-15-15.01.2 (BACT)
			CO	0.037 lb/MMBtu	33.1-15-15.01.2 (BACT)
			SO ₂	Condition 2.C.1	33.1-15-15.01.2 (BACT)
			PM/PM ₁₀ /PM _{2.5}	0.0075 lb/MMBtu	33.1-15-15.01.2 (BACT)
			VOC	0.0054 lb/MMBtu	33.1-15-15.01.2 (BACT)
			Opacity	20% ^E	33.1-15-03-02
OSBF #1 & #2 material feed & tapping	OSBF-01 & OSBF-02	OSBF-BF-01 & OSBF-02	PM/PM ₁₀ /PM _{2.5}	0.002/0.0025/0.0023 gr/dscf ^G	33.1-15-15.01.2 (BACT)
			CO & SO ₂	Condition 2.D	33.1-15-15.01.2 (BACT)
Casting unit #1, #2, #3, & #4	FE-01, FE-02, FE-03, & FE-04	FE-01, FE-02, FE-03, & FE-04	PM/PM ₁₀ /PM _{2.5}	0.002/0.0065/0.0058 gr/dscf ^G	33.1-15-15.01.2 (BACT)
Casting unit burners			All	Condition 2.C.1	33.1-15-15.01.2 (BACT)
Slag granulator #1 & #2	SG-01 & SG-02	SG-01 & SG-02	PM/PM ₁₀ /PM _{2.5}	Condition 2.E	33.1-15-15.01.2 (BACT)
Slag pit #1 & #2	SG-PIT-01 & SG-PIT-02	SG-PIT-01 & SG-PIT-02	All	Condition 2.F	33.1-15-15.01.2 (BACT)
Material handling	Various	Various	Operation	Condition 2.G	33.1-15-15.01.2 (BACT)
Fugitive dust management	Various	Various	Operation	Condition 2.H	33.1-15-15.01.2 (BACT)

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Pollutant / Parameter	Emission Limit ^A	NDAC Applicable Requirement
Fugitive piping components	FUG-01	FUG-01	Operation	Condition 2.I	33.1-15-15.01.2 (BACT)
Facility cooling towers	Various	Various	Design	Condition 2.J	33.1-15-15.01.2 (BACT)
Emergency generator and fire water pump	EG-01 & FP-01	EG-01 & FP-01	Various Opacity Operation	NSPS IIII certified engine 20% ^E Condition 2.K	33.1-15-12 (IIII) 33.1-15-03-02 33.1-15-12 (IIII)
Greenhouse gases (GHGs) facility limit	Facility Wide	Facility Wide	CO ₂ e	3,794,955 tons per calendar year Condition 3.I.1	33.1-15-15.01.2 (BACT)

^A Limits apply to each individual unit unless otherwise stated.

^B At least 8 of the engines (EUs RICE-1 through RICE-42) are required to conduct initial testing to demonstrate compliance with BACT.

^C Less restrictive NSPS JJJJ limits also apply as follows: NO_x of 1.0 g/hp-hr or 82 ppmvd @ 15% O₂, VOC of 0.7 g/hp-hr or 60 ppmvd @ 15% O₂. Exempt from NSPS JJJJ Table 1 CO limits through compliance with MACT ZZZZ.

^D Or reduce CO emissions by 93% or more

^E 40% opacity is permissible for not more than one six-minute period per hour.

^F CO CEMS complinace serves as compliance

^G Limit only applies to emissions captured by collection hood. Collection hood must be properly designed to minimize fugitive emissions.

A. Nitrogen Oxides (NO_x) Emissions Limits:

- 1) EUs RICE-1 through RICE-42 shall not discharge to the atmosphere any emissions of NO_x in excess of 0.07 grams per horsepower hour (g/hp-hr) determined through initial compliance testing in accordance with Table 4-1. Future testing requirements will be established in the operating permit.
- 2) EUs RK-01 and RK-02 shall not discharge to the atmosphere any emissions of NO_x in excess of 0.054 pounds per million British thermal unit (lb/MMBtu) determined on a 24-hr rolling average (r.a.) through operation of a continuous emissions monitoring system (CEMS).
- 3) EU INF-01 shall not discharge to the atmosphere any emissions of NO_x in excess of 0.75 lb/MMBtu determined on a 30-day r.a. through operation of a CEMS.
- 4) EU PGH-01 shall not discharge to the atmosphere any emissions of NO_x in excess of 0.01 lb/MMBtu determined on a 30-day r.a. through operation of a CEMS.
- 5) EU PTS-01 shall not discharge to the atmosphere any emissions of NO_x in excess of 0.049 lb/MMBtu determined through initial compliance testing in accordance with Table 4-1. Future testing will be required once per operating permit term¹.
- 6) EU BOIL-1 shall not discharge to the atmosphere any emissions of NO_x in excess of 0.02 lb/MMBtu determined on a 30-day r.a. through operation of a CEMS.

B. Carbon Monoxide (CO) Emissions Limits:

- 1) EUs RICE-1 through RICE-42 shall not discharge to the atmosphere any emissions of CO in excess of 0.07 g/hp-hr determined through initial compliance testing in accordance with Table 4-1. Future testing requirements will be established in the operating permit.
- 2) EUs RK-01, RK-02, and CO2-01 shall not discharge to the atmosphere any emissions of CO in excess of 0.08 lb/MMBtu determined through initial compliance testing in accordance with Table 4-1. Future testing will be required once per operating permit term.
- 3) EU INF-01 shall not discharge to the atmosphere any emissions of CO in excess of 0.039 lb/short ton fired pellets determined through initial compliance testing in accordance with Table 4-1. Future testing will be

¹ Per NDAC 33.1-15-14-06.5.a.(2) an operating permit term is five years.

required once per operating permit term.

- 4) EU PGH-01 shall not discharge to the atmosphere any emissions of CO in excess of 0.035 lb/MMBtu determined on a 30-day r.a. through operation of a CEMS.
- 5) EUs PTS-01 and BOIL-1 shall not discharge to the atmosphere any emissions of CO in excess of 0.037 lb/MMBtu determined through initial compliance testing in accordance with Table 4-1. Future testing will be required once per operating permit term.

C. Sulfur Dioxide (SO₂) Emissions Limits:

- 1) EU INF-01 shall not discharge to the atmosphere any emissions of SO₂ in excess of 0.064 lb/short ton fired pellets determined on a 30-day r.a. through operation of a CEMS.

D. Particulate Matter (PM/PM₁₀/PM_{2.5}) Emissions Limits:

- 1) EUs RK-01, RK-02, RC-01, & RC-02 shall not discharge to the atmosphere any emissions of PM/PM₁₀/PM_{2.5} in excess of 0.004/0.008/0.008 gr/dscf, respectively, determined through initial compliance testing in accordance with Table 4-1. Future testing will be required once per operating permit term.
- 2) EU INF-01 shall not discharge to the atmosphere any emissions of PM/PM₁₀/PM_{2.5} in excess of 0.004/0.008/0.007 gr/dscf, respectively, determined through initial compliance testing in accordance with Table 4-1. Future testing will be required once per operating permit term.
- 3) EU PGH-01 shall not discharge to the atmosphere any emissions of PM/PM₁₀/PM_{2.5} in excess of 0.0085 lb/MMBtu determined through initial compliance testing in accordance with Table 4-1. Future testing requirements will be established in the operating permit.
- 4) EUs PTS-01 and BOIL-01 shall not discharge to the atmosphere any emissions of PM/PM₁₀/PM_{2.5} in excess of 0.0075 lb/MMBtu determined through initial compliance testing in accordance with Table 4-1. Future testing requirements will be established in the operating permit.
- 5) EUs DPS-01 and CPD-01 shall not discharge to the atmosphere any emissions of PM/PM₁₀/PM_{2.5} in excess of 0.0075 gr/dscf determined through initial compliance testing in accordance with Table 4-1. Future testing will be required once per operating permit term.
- 6) EUs OSBF-01 and OSBF-02 shall not discharge to the atmosphere any emissions of PM/PM₁₀/PM_{2.5} in excess of 0.002/0.0025/0.0023 gr/dscf,

respectively, determined through initial compliance testing in accordance with Table 4-1. Future testing will be required once per operating permit term.

- 7) EUs FE-01, FE-02, FE-03, and FE-04 shall not discharge to the atmosphere any emissions of PM/PM₁₀/PM_{2.5} in excess of 0.002/0.0065/0.0058 gr/dscf, respectively, determined through initial compliance testing in accordance with Table 4-1. Future testing will be required once per operating permit term.

E. Volatile Organic Compounds (VOC) Emissions Limits:

- 1) EUs RICE-1 through RICE-42 shall not discharge to the atmosphere any emissions of VOC in excess of 0.07 g/hp-hr determined through initial compliance testing in accordance with Table 4-1. Future testing requirements will be established in the operating permit.
- 2) EUs RK-01, RK-02, PTS-01, and BOIL-01 shall not discharge to the atmosphere any emissions of VOC in excess of 0.0054 lb/MMBtu determined through initial compliance testing in accordance with Table 4-1. Future testing will be required once per operating permit term.
- 3) EU INF-01 shall not discharge to the atmosphere any emissions of VOC in excess of 0.025 lb/short ton fired pellets determined through initial compliance testing in accordance with Table 4-1. Future testing will be required once per operating permit term.

F. Formaldehyde:

- 1) EUs RICE-1 through RICE-42 shall not discharge to the atmosphere any emissions of Formaldehyde in excess of 14 ppmvd @ 15% O₂ determined through initial compliance testing in accordance with Table 4-1. Alternatively, CO emissions can be reduced by 93% or more determined through initial compliance testing. Future testing will be required once per operating permit term.

G. Mercury (Hg):

- 1) EUs RK-01 and RK-02 shall not discharge to the atmosphere any emissions of Hg in excess of 55 lb/MMton kiln product determined through initial compliance testing in accordance with Table 4-1. Future testing will be required once per operating permit term.
- 2) EU INF-01 shall not discharge to the atmosphere any emissions of Hg in excess of 2.6×10^{-6} lb/long ton pellets produced (1.2×10^{-9} lb/lb) determined through initial compliance testing in accordance with Table 4-1.

Future testing will be required twice per operating permit term separated by a period of at least 12 months.

H. Hydrogen Chloride (HCl) and Hydrogen Fluoride (HF):

- 1) EU INF-01 shall not discharge to the atmosphere any emissions of HCl in excess of 4.4×10^{-4} lb/long ton pellets produced (2.0×10^{-7} lb/lb) and any emissions of HF in excess of 3.3×10^{-4} lb/long ton pellets produced (1.5×10^{-7} lb/lb), determined through initial compliance testing in accordance with Table 4-1. Future testing will be required twice per operating permit term separated by a period of at least 12 months.

I. Greenhouse Gases (GHGs):

The facility is limited to releasing 3,794,955 tons of CO₂e per calendar year and shall demonstrate compliance following the procedures set forth in 40 CFR Part 98 – Mandatory Greenhouse Gas Reporting.²

4. Emission Testing Requirements:

The following testing requirements are applicable until issuance of the PTO. All emission tests identified in Table 4-1 must be conducted according to the Reference Methods (40 CFR 60 Appendix A), NDAC 33.1-15-01-12, applicable federal regulations, or as specified by the Department in accordance with good professional practice. All testing must require a minimum of three runs, one hour each, unless otherwise specified in an applicable federal subpart. The Department may conduct, require, and observe emission testing from any source at a reasonable time interval. The Department may reasonably require the permittee to demonstrate compliance with Condition 3 or to quantify emissions of any contaminant not addressed in this PTC whenever it has reason to believe noncompliance or the emission of a non-addressed contaminant is occurring.

Applicable requirement: NDAC 33.1-15-01-12

Table 4-1: Emission Testing Requirements

EU Description	EP ^A	Pollutant / Parameter	Method ^B
Natural-gas fired generator engines	RICE-1 through RICE-42 ^C	NO _x	7E
		CO	10
		SO ₂	Fuel Records ^D
		PM/PM ₁₀ /PM _{2.5}	Fuel Records ^D
		VOC	25A
		Formaldehyde	10 or 320
		Opacity	9 ^E

² See: [Link to 40 CFR Part 98](#) (last visited August 31, 2026)

EU Description	EP ^A	Pollutant / Parameter	Method ^B
Rotary kiln #1 & #2	RK-CE-01	NO _x CO SO ₂ PM/PM ₁₀ /PM _{2.5} VOC Hg Opacity	7E, CEMS 10 Fuel Records ^D Method 5 ^F and 202 25A 29, 30B or Ontario Hydro Method 9 ^E
Rotary cooler #1 & #2	RC-01 & RC-02	PM/PM ₁₀ /PM _{2.5} Opacity	Method 5 ^F and 202 9 ^E
Straight grate indurating furnace	INF-01	NO _x CO SO ₂ PM/PM ₁₀ /PM _{2.5} VOC Hg HCl HF Opacity	7E, CEMS 10 6C, CEMS Method 5 ^F and 202 25A 29, 30B or Ontario Hydro Method 26 26 9 ^E
Process Gas Heater (PGH)	PGH-01	NO _x CO SO ₂ PM/PM ₁₀ /PM _{2.5} VOC Opacity	7.E, CEMS 10, CEMS Fuel Records ^D Method 5 ^F and 202 25A 9 ^E
Pneumatic Transport System (PTS) Heater	PTS-01	NO _x CO SO ₂ PM/PM ₁₀ /PM _{2.5} VOC Opacity	7.E 10 Fuel Records ^D Method 5 ^F and 202 25A 9 ^E
PTS Depressurization & Cold Product Depressurization	DPS-01 & CPD-01	PM/PM ₁₀ /PM _{2.5}	Method 5 ^F and 202
Carbon Dioxide Capture Vent	CO2-01	CO	10
Flare	FL-01	Opacity	22

EU Description	EP ^A	Pollutant / Parameter	Method ^B
Package Boiler	BOIL-01	NO _x CO SO ₂ PM/PM ₁₀ /PM _{2.5} VOC Opacity	7.E, CEMS 10 Fuel Records ^D Method 5 ^F and 202 25A 9 ^E
OSBF #1 & #2 Material Feed & Tapping	OSBF-BF-01 & OSBF-02	PM/PM ₁₀ /PM _{2.5} Opacity	Method 5 ^F and 202 9 ^E
Casting Unit #1 - #4	FE-01, FE-02, FE-03, & FE-04	PM/PM ₁₀ /PM _{2.5}	Method 5 ^F and 202
Casting Unit burners		All	Fuel Records ^D
Material handling	Various ^G	PM/PM ₁₀ /PM _{2.5}	Method 5 ^F and 202

^A Testing requirement applies to each individual emission point unless otherwise stated.

^B Equivalent reference methods approved by the Department may be used.

^C At minimum eight of the engines shall be tested. The results from those tests may be considered representative of the entire facility, sufficient to demonstrate compliance with BACT Limits.

^D Compliance with the applicable standard may be demonstrated by maintaining records of exclusive pipeline quality natural gas firing. EU PGH may also combust DRI tail gas and OSBF tail gas.

^E Compliance with PM limit (Method 5/202 testing) may be used to demonstrate compliance with opacity limit.

^F Method 201A may be used if breakdown between PM/PM₁₀/PM_{2.5} is desired.

^G Manufacture Guarantees may be substituted for initial testing requirement upon Department review and approval if as-built gas flow parameters match selected control device's manufacture specifications/guarantees and Department verification that the unit is designed to meet the applicable limit.

A. Startup:

Within 180 days after initial startup, the permittee must conduct emission tests in accordance with Table 4-1 using an independent testing firm to determine the compliance status of the facility with respect to the emission limits specified in Table 3-1.

Applicable requirement: NDAC 33.1-15-12

B. Personnel:

All tests must be conducted under the direction of reputable, qualified personnel trained in accordance with Department approved methods.

Applicable requirement: NDAC 33.1-15-01-12.1

C. Sampling Access:

The permittee must provide the necessary facilities (exclusive of instruments and sensing devices) and sampling ports in stacks, ducts, or flues downstream of all emission control devices to conduct emission measurements. The ports must be located to enable reliable sampling and must be adequate for the required test methods. Safe sampling access and platforms must be provided. Plans and specifications showing the size and location of the ports, platform and utilities must be submitted to the Department for review and approval.

Applicable requirements: NDAC 33.1-15-01-12.2, NDAC 33.1-15-12

D. Advanced Notification:

The permittee must notify the Department using forms found in the Emission Testing Guideline³, or its equivalent, at least 30 calendar days in advance of any emission test required by the Department. Advanced notification for all other testing will be consistent with the requirements of the appropriate regulations but will in no case be less than 30 calendar days.

Applicable requirement: NDAC 33.1-15-01-12.1

E. Rescheduled Tests:

If the permittee is unable to conduct a test on its scheduled date, the permittee must notify the Department at least five days prior to the scheduled test date and coordinate a new test date with the Department.³ Failure to give the proper notification may prevent the Department from observing the test, which may cause test results to be rejected.

Applicable requirement: NDAC 33.1-15-01-12.1

F. Reporting:

A signed copy of the test results must be furnished to the Department within 60 days of the test date as per 40 CFR 60.13(c)(2). To facilitate test preparation, execution, and reporting, the permittee must follow the procedures and formats in the Department's Emission Testing Guideline.³

Applicable requirement: NDAC 33.1-15-12

³ See February 7, 2020, NDDEQ Division of Air Quality Emission Testing Guidelines: https://www.deq.nd.gov/publications/AQ/policy/PC/Emission_Testing_Guide.pdf

5. Stack Height Requirements:

Emissions must be vented through stacks with heights above the minimums defined in Table 5-1 and below the maximum defined by good engineering practice per NDAC 33.1-15-18. Stacks must not utilize air dispersion techniques to artificially alter ambient air concentrations. Stack heights must be no less than those below without prior approval from the Department.

Table 5-1: Minimum Stack Heights

EP	Minimum Stack Height (Feet)
RICE-1 through RICE-42	90
PC-BH-01 & PC-BH-02	65
PC-BV-03 through PC-BV-13	60
RK-CE-01	200
RC-01 & RC-02	200
PP-BV-01 through PP-BV-03	37
PP-BV-04	60
PP-BH-05	75
INF-01	213
PP-BV-06	75
PP-BH-07	100
PP-BV-08 through PP-BV-11	60
PP-SB-01	60
DRI-BV-03, DRI-BV-11 through DRI-BV-14	60
DRI-BH-04 through DRI-BH-07, DRI-BH-09, DRI-BH-010, & DRI-BH-15 through DRI-BH-17	60
PGH-01	200
PTS-01 & DPS-01	60
CPD-01	100
CO2-01	200
FL-01	213
BOIL-01	100
QCW-01	49
OSBF-BH-01, OSBF-BH-02, & OSBF-BH-04 through OSBF-BH-06	60
OSBF-BF-01 & OSBF-BF-02	150

EP	Minimum Stack Height (Feet)
OSBF-BH-07, OSBF-BH-08, OSBF-BH-13, & OSBF-BH-14	60
FE-BH-01 through FE-BH-04	213
SG-01 & SG-02	60
TCR-BH-01	60
CT-PP	45
CT-SG-01 & CT-SG-02	49
CT-SGC	49
CT-WTP	49

6. General Conditions (Action Required):

A. Startup Notice:

A notification of the actual date of initial startup must be submitted to the Department within 15 days after the date of initial startup.

Applicable requirement: NDAC 33.1-15-12

B. Modification:

Any alteration, repair, expansion, or change in the method or physical operation of the source which results in the emission of an additional type or greater amount of air contaminants, or which results in an increase in the ambient concentration of any air contaminant is considered a modification and must be reviewed and approved by the Department before implementation. The Department must be notified 10 days in advance of any significant deviations from the application. The issuance of this PTC may be suspended or revoked if the Department determines that a significant deviation has been or is to be made without the proper review or approval.

Applicable requirement: NDAC 33.1-15-14-02.9.d

C. Like-Kind Emission Unit Replacement:

This permit allows the permittee to replace an existing emission unit with a like-kind unit. Replacement is subject to the following conditions:

- 1) The replacement unit is subject to the same emission limits and performance testing requirements—both state and federal—as the existing unit. The facility must comply with any additional federal standards (e.g., NSPS, MACT) triggered by the replacement.
- 2) The Department must be notified within 10 days of replacement. The date of manufacture of the replacement unit and any additional federal applicability must be included in the notification.

- 3) The replacement unit must operate in the same manner without increasing throughput and have equal or less emissions than the unit it is replacing.
- 4) Testing must be conducted to confirm compliance with emission limits within 180 days after start-up of the replacement unit. Emergency units must not be required to test if replaced by a like-kind unit.

Applicable requirement: NDAC 33.1-15-14-02.9.d

D. Title V Permit to Operate:

Within one year after startup of the units covered by this permit, the permittee must submit a permit application for a Title V PTO for the facility.

Applicable requirement: NDAC 33.1-15-14-06.4.a(1)(a)

E. Annual Emission Inventory/Annual Production Reports:

The permittee must submit an annual emission inventory report and/or an annual production report upon Department request on forms approved by the Department.

Applicable requirement: NDAC 33.1-15-14-02.9.d

F. Malfunction Notification:

The permittee must notify the Department of any malfunction which can be expected to last longer than 24 hours and can cause the emission of air contaminants in violation of applicable rules and regulations. Using empirical estimates of emission rates, the permittee must conservatively estimate if the malfunction can cause noncompliance.

Applicable requirement: NDAC 33.1-15-01-13.2.a

G. Transfer of Permit to Construct:

The holder of a PTC may not transfer such permit without prior approval from the Department.

Applicable requirement: NDAC 33.1-15-14-02.11

7. General Conditions (Obligations):

A. Construction:

This permit must become invalid if construction does not commence within 18 months after permit issuance, construction is discontinued for a period of 18 months or more, or construction is not completed within a reasonable time as determined by the Department. The Department may provide a time period greater than 18 months when such extension is supported by sufficient documentation from the applicant.

Applicable requirement: NDAC 33.1-15-14-02.10.b.

B. Operation:

Construction and operation of the facility must be in accordance with the permit application—which includes technical supplements, revisions, and supporting data. Any operations not listed in this permit are subject to all applicable NDAC 33.1-15 requirements. At all times, including periods of startup, shutdown, and malfunction, the permittee must, to the extent practicable, maintain and operate any affected facility—including associated air pollution control equipment—in a manner consistent with good practice for minimizing emissions.

Applicable requirements: NDAC 33.1-15-12, NDAC 33.1-15-22

C. Recordkeeping:

The permittee must maintain any compliance monitoring records required by this permit or applicable requirements for a period of at least five years (unless otherwise stated) from the date of the monitoring sample, measurement, report or application. Support information may include all calibration and maintenance records, all original strip-chart recordings and computer printouts for continuous monitoring instrumentation, and copies of all reports required by the permit.

Applicable requirements: NDAC 33.1-15-14-02.9.d

D. Control of Organic Compound Emissions:

The permittee must comply with all applicable requirements of NDAC 33.1-15-07, which establishes requirements for the construction of organic compound facilities related to closed-vent systems, control devices, and seals and for the control of VOC vapors using a continuously burning pilot flare or other equally effective control device.

E. Internal Combustion Engine Emissions Restricted:

The permittee must comply with all applicable requirements of NDAC 33.1-15-08-01, which restricts the operation of internal combustion engines which emit, from any source, unreasonable and excessive smoke, obnoxious or noxious gas, fumes or vapor.

F. Restriction of Fugitive Emissions:

The release of fugitive emissions must comply with the applicable requirements in NDAC 33.1-15-17, which restricts particulate matter and gaseous fugitive emissions that would violate other regulations.

G. Permit Invalidation:

This permit must be effective from the date of its issuance unless suspended, revoked or surrendered. The violation of any condition of this permit may result in revocation or suspension of the permit or other appropriate enforcement action. If any provision or application of a provision of this permit is held invalid in any circumstance, the remainder of this permit must remain valid.

Applicable requirement: NDAC 33.1-15-14-02.9

H. Nuisance or Danger:

This permit must in no way authorize the maintenance of a nuisance or a danger to public health or safety.

Applicable requirements: NDAC 33.1-15-02-03, NDAC 33.1-15-14-02.9.c

I. Right of Entry:

Any duly authorized officer, employee, or agent of the Department may enter and inspect any property, premise, or place at which the source is located at any time for the purpose of ascertaining compliance with NDAC 33.1-15. The Department may inspect monitoring equipment, conduct tests, and take samples of air contaminants, fuel, processing material, and other materials, which affect or may affect the emission of air contaminants from any source. The Department must have the right to access and copy any records required by the Department.

Applicable requirement: NDAC 33.1-15-01-06, NDCC 23.1-06-11

8. State Enforceable Conditions (Not Federally Enforceable):

A. Emissions of Odorous Substances Restricted:

The permittee must not discharge into the ambient air any objectionable odorous air contaminant which measures seven odor concentration units or greater.

Applicable requirement: NDAC 33.1-15-16