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Air Title V Operating Permit (AOP) - Renewal

version 2.5

(Submission #: HQ6-PFA2-RRZH5, version 1)

Details

Submission ID HQ6-PFA2-RRZH5

Status In Process

Form Input

Form Instructions

In accordance with 33.1-15-14-04.c. of the North Dakota Air Pollution Control Rules, a Title V permit renewal application must be submitted to the Department at least six months, but no more than eighteen months, prior to the expiration date. Permit renewal applications are incomplete unless all information requested in SFN 52824 is supplied. The current Title V permit will be the baseline reference for a renewal. The requirements (40 CFR 70.5(c) & NDAC 33.1-15-14-06.4.c) to include a citation and description of all applicable requirements and a description of or reference to any applicable test method for determining compliance with each applicable requirement may be met by accomplishing either or both of the following: 1) provide an annotated (red-lined) copy of the current permit indicating all changes needed to reflect the current facility configuration, applicable requirements and test methods; 2) provide a narrative that conveys all changes needed to the current permit to reflect the current facility configuration, all applicable requirements and test methods.

FOR ACID RAIN UNITS ONLY ♦ Submit with the Title V permit renewal application all Acid Rain renewal applications (the Acid Rain Permit Application, the Phase II NOx Compliance Plan, and if applicable, the Phase II NOx Averaging Plan).

When completing the online application, if uploaded files are provided in each section (when indicated), do not include those same files in the General Document Upload/File Upload section. If uploading the application files in the General Document Upload/File Upload section, only fill out the required (asterisked) sections of the online application.

Section A - Permit Information

Permit Number

AOP-28455

Permit Version

5

Issue Date

02/18/2020

Expiration Date

03/22/2025

Permittee

Company Name

American Crystal Sugar Company

Address

101 North Third Street

Moorhead, MN 56560

United States

Responsible Official

Prefix

NONE PROVIDED

First Name Last Name

Daniel Bernhardson

Title

Vice President of Operations

Phone Type Number Extension

Business 2182364327

Email

dbernar@crystalsugar.com

Address

101 North Third Street
Moorhead, MN 56560
United States

Contact Person for Air Pollution Matters

Prefix

NONE PROVIDED

First Name Last Name

Doug Waters

Title

Environmental Compliance Supervisor

Phone Type Number Extension

Business 7016363065

Email

Dwaters@crystalsugar.com

Address

121 Highway 81 NE
Hillsboro, ND 58045
United States

Section B (Part 1) - Facility Information

Facility Name

American Crystal Sugar Company (ACS) - Hillsboro Plant

Have you added, removed, or made any modifications to equipment since your last operating permit issuance?

No

Is this source subject to Title IV Acid Rain regulations?

No

Is this a portable source?

No

Facility Location

121 Highway 81 NE
Hillsboro, ND 58045
United States

County

Traill

Facility Location:

47.43806900000000,-97.06321400000000

121 Highway 81 NE, Hillsboro, ND

Section B (Part 2) - Additional Location Information

Legal Description of Facility Site

Qtr Qtr	Qtr	Section	Township	Range
NE	NW	29	146N	50W

Land area at facility site (indicate whether measurement is in acres or sq. ft.)

NONE PROVIDED

MSL elevation at facility

NONE PROVIDED

Section C - Nature of Business

General Nature of Business

Describe Nature of Business	NAICS Code	SIC Code
Sugar Beet Processing	311313-Beet Sugar Manufacturing	2063-Beet Sugar

Actual Start of Construction Date

NONE PROVIDED

Actual End of Construction Date

NONE PROVIDED

Facility Startup Date

NONE PROVIDED

Section D - Process Equipment Information (1 of 1)

Emission Unit -

Emission Unit ID

NONE PROVIDED

Emission Unit Description

NONE PROVIDED

Emission Point ID

NONE PROVIDED

Emission Point Description

NONE PROVIDED

Emission Process Description

NONE PROVIDED

Emission Unit Status

NONE PROVIDED

Applicable PTCs

PTC Number

Applicable Federal Air Programs

Program Code

Applicable State Regulations

Regulation

Emission Unit form

Download the emission unit form linked here, complete it, and upload it to this application using the attachment control below.

When completing the online application, if uploaded files are provided in each section (when indicated), do not include those same files in the General Document Upload/File Upload section. If uploading the application files in the General Document Upload/File Upload section, only fill out the required (asterisked) sections of the online application.

[EMISSION UNIT FOR TITLE V PERMIT TO OPERATE \(SFN61006\)](#)

Attach Emission Unit Form

NONE PROVIDED
Comment
NONE PROVIDED

Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)

Applicable Federal Air Programs

Program Code

Applicable State Regulations

Regulation

Potential to Emit (PTE)

Pollutant	Tons Per Year Without Fugitives	Tons Per Year With Fugitives
NOx	NONE PROVIDED	NONE PROVIDED
CO	NONE PROVIDED	NONE PROVIDED
VOCs	NONE PROVIDED	NONE PROVIDED
SO2	NONE PROVIDED	NONE PROVIDED
PM	NONE PROVIDED	NONE PROVIDED
PM10	NONE PROVIDED	NONE PROVIDED
PM2.5	NONE PROVIDED	NONE PROVIDED
Total HAPs	NONE PROVIDED	NONE PROVIDED

Emission Calculations Document Upload

Using the attachment control below, upload emission calculations documents.

When completing the online application, if uploaded files are provided in each section (when indicated), do not include those same files in the General Document Upload/File Upload section. If uploading the application files in the General Document Upload/File Upload section, only fill out the required (asterisked) sections of the online application.

Attach Emission Calculations Documents

NONE PROVIDED
Comment
NONE PROVIDED

Section G - Compliance Schedule

Will your facility be in compliance with all applicable requirements effective at the time of permit issuance?

Yes

Will your facility be in compliance with all applicable requirements effective after the time of permit issuance?

Yes

Section H - Flexible Permits

Are you requesting a flexible permit?

No

Section I - Compliance Assurance Monitoring (CAM)

To determine if your facility is subject to CAM, review the information provided at the following link.

[Compliance Assurance Monitoring \(CAM\) Guidance](#)

Is the facility identified in this application in compliance with applicable monitoring and compliance certification requirements?

Yes, the facility IS in compliance with applicable monitoring and compliance certification requirements.

Section K - Redline Permit Upload

Use the attachment control below to upload a redline version of your existing permit document, showing any changes.

When completing the online application, if uploaded files are provided in each section (when indicated), do not include those same files in the General Document Upload/File Upload section. If uploading the application files in the General Document Upload/File Upload section, only fill out the required (asterisked) sections of the online application.

Attach redline version of permit here

[Redlined_AOP28455v5_1.pdf - 09/18/2024 01:44 PM](#)

Comment

NONE PROVIDED

Section L - General Document Upload

File Upload

Use the attachment control below to upload any other information necessary for application review, such as plot plans, process diagrams, maps, etc.

When completing the online application, if uploaded files are provided in each section (when indicated), do not include those same files in the General Document Upload/File Upload section. If uploading the application files in the General Document Upload/File Upload section, only fill out the required (asterisked) sections of the online application.

Attachments

[MinorSignificanceLetter.pdf - 09/18/2024 01:45 PM](#)

[HLBPermitRenewal - Signed.pdf - 09/18/2024 02:16 PM](#)

[HLB Renewal Cover - 2024.pdf - 09/18/2024 02:49 PM](#)

Comment

NONE PROVIDED

Additional Forms

NONE PROVIDED

Attachments

Date	Attachment Name	Context	User
9/18/2024 2:49 PM	HLB Renewal Cover - 2024.pdf	Attachment	Dan Weber
9/18/2024 2:16 PM	HLBPermitRenewal - Signed.pdf	Attachment	Dan Weber

Date	Attachment Name	Context	User
9/18/2024 1:45 PM	MinorSignificanceLetter.pdf	Attachment	Dan Weber
9/18/2024 1:44 PM	Redlined_AOP28455v5_1.pdf	Attachment	Dan Weber

Status History

	User	Processing Status
9/16/2024 1:08:10 PM	Dan Weber	Draft
9/19/2024 3:55:58 PM	Dan Weber	Signing
9/19/2024 3:55:58 PM	Dan Weber	Submitting
9/19/2024 3:56:50 PM	Dan Weber	Submitted
9/19/2024 3:56:52 PM	Dan Weber	In Process

Audit

Event	Event Description	Event By	Event Date
Submission Locked	Submission Locked	Schneider, Kyla K.	9/27/2024 12:56 PM

Agreements and Signature(s)

SUBMISSION AGREEMENTS

- I am the owner of the account used to perform the electronic submission and signature.
- I have the authority to submit the data on behalf of the facility I am representing.
- I agree that providing the account credentials to sign the submission document constitutes an electronic signature equivalent to my written signature.
- I have reviewed the electronic form being submitted in its entirety, and agree to the validity and accuracy of the information contained within it to the best of my knowledge.

I certify under penalty of law that the enclosed documents and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I also certify that the source(s) identified in this application is/are in compliance with all applicable requirements except those requirements for which a compliance schedule has been submitted in the Compliance Schedule Form or Compliance Schedule Section of the application. I understand that failure to comply with any term of a compliance schedule is considered to be a violation of regulation NDAC 33.1-15-14-06.1.e. The source will continue to comply with the current applicable requirements with which it is in compliance. The source will meet, on a timely basis, any applicable requirement, which becomes effective during the permit term. The source is properly implementing any required risk management plan in accordance with section 112(r) of the federal clean air act, if appropriate.

I certify, as the Responsible Official, that I have read and understood the above requirements and conditions applicable to my source/facility and that the information and attachments provided in this application are true, accurate, and complete to the best of my knowledge." Further, I agree to comply with the provisions of Chapter 23.1-06 of the North Dakota Century Code and all rules and regulations of the Department, or revisions thereof. I also understand a permit is nontransferable and, if granted a permit, I will promptly notify the Department upon sale or legal transfer of this permitted establishment.

Note: This certification must be signed by a "responsible official" as defined in NDAC 33.1-15-14-06.1.

Signed Dan Weber on 09/19/2024 at 3:55 PM
By



American Crystal
Sugar Company

September 18, 2024

North Dakota Department of Environmental Quality
Division of Air Quality
918 E. Divide Ave
Bismarck, ND 58501

Re: Title V Permit To Operate – Renewal Application
American Crystal Sugar Company, Hillsboro Plant, AOP-28455 v5.1

Dear Permit Information Coordinator:

American Crystal Sugar Company (ACSC) owns and operates the Hillsboro Sugar Beet Processing Plant (Hillsboro Plant), located in Hillsboro, Traill County, North Dakota. The Hillsboro Plant currently operates under Air Pollution Control Title V Permit To Operate No. AOP-28455 v5.1, which expires on March 22, 2025. This narrative description and attached permit application documents comprise a complete Title V Permit To Operate – Renewal Application for the Hillsboro Plant.

Attached documentation includes:

- North Dakota Department of Health Title V Permit To Operate – Renewal Application Form SFN 52824 (9-2021)
- Redlined Air Pollution Control Title V Permit to Operate AOP-284555 v5.1
- Project of Minor Significance Approval Letter

The facility's current Title V permit incorporates all currently applicable regulatory requirements, and no significant changes have been made to the facility since its issuance. However, one project of minor significance was approved on June 16, 2021. This project allowed the addition of natural gas fuel to the pulp dryer (EU3) in addition to biogas fuel. No changes were made to equipment capacity, regulatory requirements, emission limitations or compliance monitoring. The attached red-line copy of the current permit has been provided to note the addition of the natural gas fuel type. No other changes are required.

If you have any questions or require any additional details, please do not hesitate to contact me at (218) 236-4304.

Sincerely,

A handwritten signature in blue ink, appearing to read "Dan Weber".

Dan Weber
Environmental Engineer

Enclosures

C/enc.: US EPA Region 8
Doug Waters, ACSC – Hillsboro
File



TITLE V PERMIT TO OPERATE - RENEWAL APPLICATION
 NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY
 DIVISION OF AIR QUALITY
 SFN 52824 (9-2021)

In accordance with 33.1-15-14-04.c. of the North Dakota Air Pollution Control Rules, a Title V permit renewal application must be submitted to the Department at least six months, but no more than eighteen months, prior to the expiration date. Permit renewal applications are incomplete unless all information requested herein is supplied. The current Title V permit will be the baseline reference for this renewal. The requirements (40 CFR 70.5(c) & NDAC 33.1-15-14-06.4.c) to include a citation and description of all applicable requirements and a description of or reference to any applicable test method for determining compliance with each applicable requirement may be met by accomplishing either or both of the following: 1) enclose an annotated (red-lined) copy of the current permit indicating all changes needed to reflect the current facility configuration, applicable requirements and test methods; 2) enclose a narrative that conveys all changes needed to the current permit to reflect the current facility configuration, all applicable requirements and test methods.

FOR ACID RAIN UNITS ONLY – Submit with the Title V permit renewal application all Acid Rain renewal applications (the Acid Rain Permit Application, the Phase II NO_x Compliance Plan, and if applicable, the Phase II NO_x Averaging Plan).

PART 1. GENERAL APPLICATION INFORMATION

Owner's Name <u>American Crystal Sugar Company</u>	
Facility Name <u>Hillsboro Plant</u>	
Name of Person Completing Application <u>Gregory Raetz</u>	Phone <u>(763) 278-5905</u>
Title <u>Senior Air Quality Specialist - HDR Engineering, Inc.</u>	Email <u>gregory.raetz@hdrinc.com</u>
Current Operating Permit Number <u>AOP-28455 v5.1</u>	
Expiration Date of Current Operating Permit <u>03</u> / <u>22</u> / <u>2025</u>	

PART 2. COMPLIANCE CERTIFICATION

A. Schedule for Submission of Compliance Certifications During the Term of the Permit

Frequency of Submittal <u>Annual</u>	Date Beginning (month/day/year) <u>02/18/2020</u>
---	--


B. Statement of Compliance with Compliance Assurance Monitoring (CAM) and Compliance Certification Requirements

The facility identified in this application is in compliance with applicable monitoring and compliance certification requirements.	
<input checked="" type="checkbox"/>	Yes
<input type="checkbox"/>	No - Describe below which requirements are not being met:
<input type="checkbox"/>	CAM not applicable

C. Certification of Compliance with all Applicable Requirements

This certification must be signed by a "responsible official" as defined in NDAC 33.1-15-14-06.1. Forms without a signed certification will be returned as incomplete.

Except for requirements identified in Compliance Schedule and Plan (Section G) of Title V Permit to Operate application forms for which compliance is not achieved, I hereby certify that, based on information and belief formed after reasonable inquiry, the air contaminant source identified in this form is in compliance with all applicable requirements.

Signed 	Date <u>9-18-24</u>
Typed Name Daniel Bernhardson, VP of Operations	

PART 3. STATUS OF SOURCE

Has there been any change to the source since the most recent initial or renewal permit application, minor permit modification, significant modification or administrative permit amendment?

No Yes

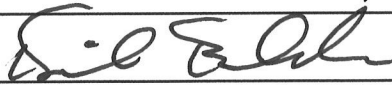
If yes, complete and submit appropriate sections of Title V Permit to Operate application forms.

PART 4. CERTIFICATION OF TRUTH, ACCURACY AND COMPLETENESS

Note: This certification must be signed by a "responsible official" as defined in NDAC 33.1-15-14-06.1. Applications without a signed certification will be returned as incomplete.

I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate and complete.

Name (typed) Daniel Bernhardson, VP of Operations

(Signed)  Date 9 / 18 / 24

Telephone Number (218) 236-4327

Send original renewal application to:

North Dakota Department of Environmental Quality
 Division of Air Quality
 4201 Normandy Street, 2nd Floor
 Bismarck, ND 58503-1324
 (701)328-5188

Send copy of renewal application to:

Air Program (8P-AR)
 Office of Partnerships & Regulatory Assistance
 US EPA Region 8
 1595 Wynkoop Street
 Denver, CO 80202-1129

June 16, 2021

Mr. Douglas Emerson
American Crystal Sugar Company
101 North Third Street
Moorhead, MN 56560

Re: Hillsboro Pulp Dryer Natural Gas Fuel Supply

Dear Mr. Emerson:

We have reviewed the information regarding the proposed combustion of natural gas in the Promill Pulp Dryer (EU 3) at your Hillsboro facility. Based upon the information submitted, the Department has determined that the addition of natural gas as a fuel is expected to result in an increase in air pollution of minor significance and a Permit to Construct is not required per Subdivision 33.1-15-14-02.13.n of the North Dakota Air Pollution Control Rules. This determination is contingent upon the following conditions:

1. Operation of the pulp dryer shall be in accordance with information provided to the Department as well as any plans, specifications and supporting data submitted to the Department. The Department shall be notified ten days in advance of any significant deviations from the specifications furnished. This determination may be invalidated if the Department determines that a significant deviation from the plans and specifications furnished has been or is to be made.
2. Even though a permit is not required, emissions from the unit must still comply with the applicable requirements of the rules.
3. American Crystal Sugar shall comply with all applicable requirements of 40 CFR 52.21(r)(6), which are incorporated into North Dakota Administrative Code Chapter 33.1-15-15, Prevention of Significant Deterioration of Air Quality.

The above determination only pertains to air quality requirements. Other divisions (Water Quality, Waste Management and Municipal Facilities) within the Department may have additional requirements. Contact information for the various divisions is listed at the bottom of this letter.

Feel free to contact me at 701-328-5198 or cthorstenson@nd.gov with any questions.

Sincerely,



Craig D. Thorstenson
Manager, Permitting Program
Division of Air Quality

CDT:saj


xc: Greg Raetz, HDR (email)

AIR POLLUTION CONTROL TITLE V PERMIT TO OPERATE

Permittee: Name: American Crystal Sugar Company Address: 101 N Third Street Moorhead, MN 56560-1990	Permit Number: AOP-28455 v5.1 Source Name: Hillsboro Plant
Source Location: 121 Highway 81 NE Hillsboro, ND 58045 NE ¼, NW ¼, Sec. 29, T146N, R50W Traill County	Source Type: Sugar Beet Processing
Expiration Date: March 22, 2025	

Pursuant to Chapter 23.1-06 of the North Dakota Century Code (NDCC), and the Air Pollution Control Rules of the State of North Dakota, Article 33.1-15 of the North Dakota Administrative Code (NDAC), and in reliance on statements and representations heretofore made by the permittee (i.e., owner) designated above, a Title V Permit to Operate is hereby issued authorizing such permittee to operate the emissions units at the location designated above. This Title V Permit to Operate is subject to all applicable rules and orders now or hereafter in effect of the North Dakota Department of Environmental Quality (Department) and to any conditions specified on the following pages. All conditions are enforceable by EPA and citizens under the Clean Air Act unless otherwise noted.

Renewal: 2/18/20
 Revision (Sig. Mod.): 6/6/22



 James L. Semerad
 Director
 Division of Air Quality

Hillsboro Plant
Title V Permit to Operate
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Attachment A - Compliance Assurance Monitoring (CAM) Plan for EU 1, 2, 3, 5, 9, 10 & 22

1. **Emission Unit Identification:**

The emission units regulated by this permit are as follows:

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
Two Foster-Wheeler coal-fired spreader stoker boilers with a nominal heat input capacity of 237×10^6 Btu/hr each and a nominal steam load capacity of 175,000 lbs/hr each. EU 1 also combusts biogas.	1	1 (Boiler No. 1 flue)	Two electrostatic precipitators
	2	2 (Boiler No. 2 flue)	Each boiler exhausts through a separate flue within a single stack.
Promill 24.5' x 65.6' coal and biogas-fired pulp dryer with a nominal capacity of 110 tons/hr of pressed pulp and a rated heat input of 230.3×10^6 Btu/hr	Add "natural gas-fired" to the allowable pulp dryer fuels.	3A (pulp dryer stack)	Two cyclones in parallel followed by a wet scrubber with exhaust gas recycle (EP 3A only)
		3B (Bypass stack)	
Sugar dryer/cooler with a 100 tons/hr nominal capacity	5	5	Baghouse
Pellet mill area which includes three pellet mills each with 18 tons/hr nominal capacity and a pellet cooler with a 30 tons/hr nominal capacity and dry pulp and pellet equipment	7	7	Two cyclones in parallel
	8	8	
	9	9	Two baghouses
Three sugar silos, Rotex sugar screening station, scale and associated conveying system with a 75 tons/hr nominal capacity	10 ^A	10	One Donaldson 162MB(w)8 baghouse and one Micro-Pulsaire baghouse
Mixed-feed vertical shaft lime kiln (Eberhardt, Model KR6.5) rated at 550 tons/day lime rock throughput consisting of the following emission sources: a) Balance vent exchange b) Carbonation (carb.) tank vent c) CO ₂ header pressure relief vent Feedstock is lime rock. Fuel is coke and/or anthracite coal.	11	11A (Balance vent)	Inherent process controls ^B /good combustion practices
		11B (Combined carb. vent)	
		11C (Pressure vent)	
		11D (Startup/emergency bypass)	

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
Lime slaker (Eberhardt) with a 12.8 ton lime/hr nominal capacity	12	12A (Steam vent)	None
		12B (Fugitive)	
Biogas flare (wastewater treatment system)	13	13	None
Weibull bin No. 3, conveying, and vacuum	14 ^A	14A	Two air filters and one baghouse
		14B	
Pellet storage bins	15	15A	None
		15B	
		15C	
Pellet loadout	16 ^A	Fug 1	None
Dry pulp dump	17 ^A	Fug 2	None
Coal pile wind erosion and coal handling	19 ^A	Fug 4	None
Lime rock handling emissions	20 ^A	Fug 5	None
Detroit Diesel 235 bhp diesel engine-driven emergency water pump (fire protection; manuf. 2000)	21 ^{A, C}	21	None
Pulp pellet loadout (nominal 240 ton/hr)	22	22	None
Pellet loading vacuum cleaning (pellet area)	23 ^A	23	Baghouse
Sugar Weibull bin No. 2 vacuum cleaning (sugar area)	24 ^A	24	Baghouse

- ^A Insignificant or fugitive emission sources (no specific emission limit).
- ^B Emissions from EU 11 are vented to a packed tower scrubber gas conditioning system as an inherent part of the process. The exhaust gases are then vented to carbonation tanks in the carbonation process. A portion of the exhaust gases are vented to a balance vent and a CO₂ pressure relief vent prior to the carbonation process.
- ^C The potential to emit for an emergency stationary reciprocating internal combustion engine (RICE) is based on operating no more hours per year than is allowed by the subpart (40 CFR 63, Subpart ZZZZ) for other than emergency situations. For engines to be considered emergency stationary RICE under the RICE rules, engine operations must comply with the operating hour limits as specified in the applicable subpart. There is no time limit on the use of emergency stationary RICE in emergency situations [40 CFR 63, Subpart ZZZZ, §63.6640(f)].

2. **Applicable Standards, Restrictions and Miscellaneous Conditions:**

A. **Process Restrictions:**

- 1) The process weight rate (pulp and solid fuel) of the pulp dryer (EU 3) shall not exceed 122.3 tons/hr. Higher process weight rates may be allowed by the Department upon a demonstration of compliance with the emission limits in Condition 3.

Applicable Requirement: Permit to Construct (PTC)06001

B. **Fuel Restrictions:**

- 1) The boiler (EU 1) is restricted to combusting only subbituminous coal, coke fines, and/or anthracite coal fines and/or biogas.

Applicable Requirement: Air Construction Permit (ACP)-17816 v1.0

- 2) The boiler (EU 2) is restricted to combusting only subbituminous coal, coke fines, and/or anthracite coal fines.

Applicable Requirement: ACP-17816 v1.0

- 3) The lime kiln (EU 11) is restricted combusting only coke, anthracite coal or a mixture of coke and anthracite coal.

Applicable Requirement: ACP-17511 v1.0 & ACP-17816 v1.0

- 4) Engine EU 21 is restricted to combusting only distillate oil with no more than 0.0015 percent sulfur by weight. This fuel restriction ensures compliance with NDAC 33.1-15-06-01.2.

Applicable Requirement: NDAC 33.1-15-14-06.5.b(1) & NDAC 33.1-15-06-01.2

C. **Flare Stack Height and Fare Restrictions:**

- 1) The stack height for the flare shall be at a sufficient height to allow for adequate dispersion of sulfur dioxide (SO₂) necessary to meet the requirements of Chapter 33.1-15-02.
- 2) When it is necessary to operate the flare during emergency, malfunction or maintenance, all precautions shall be taken to minimize emissions and maintain compliance with the applicable ambient air quality standards as outlined in NDAC 33.1-15-02 and the opacity standard of 20% not to exceed 60% for more than one six-minute period per hour.
- 3) The flare must be equipped and operated with an automatic ignitor or a continuous burning pilot which must be maintained in good working order as outlined in NDAC 33.1-15-07-02.

- 4) The presence of a flame shall be monitored using a thermocouple or any other equivalent device approved by the Department.

Applicable Requirement: ACP-17993 v1.0

- D. **New Source Performance Standards (NSPS):** The permittee shall comply with all applicable requirements of the following NDAC 33.1-15-12-02 and 40 CFR 60 subparts in addition to complying with Subpart A – General Provisions.

- 1) Subpart Db – Industrial-commercial-institutional steam generating units (EU 1 and 2).

Applicable Requirements: NDAC 33.1-15-12-02, Subparts A & Db

- E. **Maximum Achievable Control Technology (MACT):** The permittee shall comply with all applicable requirements of the following NDAC 33.1-15-22-03 and 40 CFR 63 subparts in addition to complying with Subpart A - General Provisions.

- 1) Subpart ZZZZ (4Z) - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (EU 21).
- 2) Subpart DDDDD (5D) - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters (EU 1 and 2).
 - a) Conduct a tune-up of the solid fuel boilers (EU 1 and 2) annually, no later than 13 months after the previous tune-up, in accordance with §63.7540(a)(10). Alternatively, boilers with a continuous oxygen trim system that maintain an optimum air to fuel ratio must conduct a tune-up every 5 years, as specified in §63.7540(a)(10)(i) through (vi).
 - b) For boilers and process heaters (EU 1 and 2) that demonstrate compliance with a performance test, maintain the 30-day rolling average operating load of each unit such that it does not exceed 110 percent of the highest hourly average operating load recorded during the performance test.

Applicable Requirements: 33.1-15-22-03, Subparts A, ZZZZ & DDDDD

F. **Like-Kind Engine Replacement:** This permit allows the permittee to replace the existing engine(s) with a like-kind engine. Replacement is subject to the following conditions.

- 1) The Department must be notified within 10 days after change-out of the engine.
- 2) The replacement engine shall operate in the same manner, provide no increase in throughput and have equal or less emissions than the engine it is replacing.
- 3) The date of manufacture of the replacement engine must be included in the notification. The facility must comply with any applicable federal standards (e.g. NSPS, NESHAP, MACT) triggered by the replacement.
- 4) The replacement engine is subject to the same state emission limits as the existing engine in addition to any NSPS or MACT emission limit that is applicable.

Applicable Requirement: NDAC 33.1-15-14-06.5.b(1)

3. **Emission Unit Limits:**

Emission Unit Description	EU	EP	Pollutant/Parameter	Emission Limit/Parameter ^A	NDAC Applicable Requirement
Foster-Wheeler boiler No. 1 Dual fuel coal and biogas ^B	1	1	Filterable PM (or TSM ^C)	0.04 lb/10 ⁶ Btu or (0.000053 lb/10 ⁶ Btu) ^D	33.1-15-22, Subpart 5D
			PM/PM ₁₀	11.85 lb/hr	PTC 12/6/85
			SO ₂	3.0 lb/10 ⁶ Btu & 264.4 lb/hr	33.1-15-06-01.2 & PTC 12/6/85
			NO _x	0.60 lb/10 ⁶ Btu ^E & 142.2 lb/hr ^E	33.1-15-12, Subpart Db & PTC 12/6/85
			CO	160 ppm @ 3% O ₂	33.1-15-22, Subpart 5D
			Hg	5.7 x 10 ⁻⁶ lb/10 ⁶ Btu	33.1-15-22, Subpart 5D
			HCl	0.022 lb/10 ⁶ Btu	33.1-15-22, Subpart 5D
Opacity	10%	33.1-15-22, Subpart 5D & 33.1-15-03-02			

Emission Unit Description	EU	EP	Pollutant/Parameter	Emission Limit/Parameter ^A	NDAC Applicable Requirement
Foster Wheeler boiler No. 2	2	2	Filterable PM or (TSM)	0.04 lb/10 ⁶ Btu or (0.000053 lb/10 ⁶ Btu) ^D	33.1-15-22, Subpart 5D
			PM/PM ₁₀	11.85 lb/hr	PTC 12/6/85
			SO ₂	3.0 lb/10 ⁶ Btu & 264.4 lb/hr	33.1-15-06-01.2 & PTC 12/6/85
			NO _x	0.60 lb/10 ⁶ Btu ^E & 142.2 lb/hr ^E	33.1-15-12, Subpart Db & PTC 12/6/85
			CO	160 ppm @ 3% O ₂	33.1-15-22, Subpart 5D
			Hg	5.7 x 10 ⁻⁶ lb/10 ⁶ Btu	33.1-15-22, Subpart 5D
			HCl	0.022 lb/10 ⁶ Btu	33.1-15-22, Subpart 5D
			Opacity	10%	33.1-15-22, Subpart 5D & 33.1-15-03-02
Promill pulp dryer	3	3A	PM	52.0 lb/hr ^F	33.1-15-05-01.2 & PTC06001
			PM ₁₀	52.0 lb/hr	PTC 6/11/97
			SO ₂	63.3 lb/hr	PTC 6/11/97
			NO _x	100.0 lb/hr	PTC 6/11/97
			CO	700.0 lb/hr	ACP-17185 v1.0
			VOC	92.1 lb/hr	PTC 6/11/97
			Opacity	20% ^G	33.1-15-03-02
Sugar dryer/cooler	5	5	PM	1.5 lb/hr	33.1-15-03-02
			PM ₁₀	1.5 lb/hr	33.1-15-03-02
			Opacity	20% ^G	33.1-15-03-02
Pellet mills, pellet cooler, dry pulp & pellet equip.	7, 8 & 9	7, 8 & 9	PM	4.8 lb/hr (total)	PTC 6/11/97
			PM ₁₀	4.8 lb/hr (total)	PTC 6/11/97
			Opacity	20% ^G	33.1-15-03-02

Emission Unit Description	EU	EP	Pollutant/Parameter	Emission Limit/Parameter ^A	NDAC Applicable Requirement
Sugar loading area/silos including Rotex sugar screening station, scale and associated conveying	10	10	PM	1.5 lb/hr (total)	PTC Condition
			PM ₁₀	1.5 lb/hr (total)	PTC Condition
			Opacity	20% ^G	33.1-15-03-02
Lime kiln	11	11A, 11B, 11C & 11D	PM/PM ₁₀	10.7 lb/hr (total) & 0.47 lb/ton limerock (total)	33.1-15-15-01.2 (BACT) & ACP-17816 v1.0
			PM _{2.5}	8.5 lb/hr (total) & 0.37 lb/ton limerock (total)	33.1-15-15-01.2 (BACT) & ACP-17816 v1.0
			SO ₂	11.5 lb/hr (total) & 0.5 lb/ton limerock (total)	33.1-15-06-01.2 & ACP-17816 v1.0
			NO _x	26.8 lb/hr (total) & 1.2 lb/ton limerock (total)	33.1-15-15-01.2 (BACT) & ACP-17816 v1.0
			CO	850 lb/hr (total) & 37.1 lb/ton limerock (total)	33.1-15-15-01.2 (BACT) & ACP-17816 v1.0
			VOC	2.0 lb/hr (total) & 0.09 lb/ton limerock (total)	33.1-15-02-07.1 & ACP-17816 v1.0
			Opacity	20%	33.1-15-15-01.2 (BACT) & ACP-17816 v1.0
Lime slaker	12	12A	PM/PM ₁₀	3.07 lb/hr (total) & 0.24 lb/ton limerock (total)	33.1-15-15-01.2 (BACT) & ACP-17816 v1.0
			PM _{2.5}	1.14 lb/hr (total) & 0.09 lb/ton limerock (total)	33.1-15-15-01.2 (BACT) & ACP-17816 v1.0
			Opacity	20%	33.1-15-15-01.2 (BACT) & ACP-17816 v1.0
Biogas flare	13	13	SO ₂	50.26 tons/yr (12-month rolling total)	ACP-17993 v1.0
			Opacity	20% ^G	ACP-17993 v1.0
Weibull bin No. 3, conveying and vacuum	14	14A & 14B	PM	0.2 lb/hr (total)	PTC 6/11/97
			PM ₁₀	0.2 lb/hr (total)	PTC 6/11/97
			Opacity	20% ^G	33.1-15-03-02

Emission Unit Description	EU	EP	Pollutant/Parameter	Emission Limit/Parameter ^A	NDAC Applicable Requirement
Pellet bins	15	15A, 15B & 15C	PM	1.5 lb/hr (total)	PTC 6/11/97
			PM ₁₀	1.5 lb/hr (total)	PTC 6/11/97
			Opacity	20% ^G	33.1-15-03-02
Diesel emergency fire pump engine	21	21	NO _x	2.0 lb/hr	33.1-15-02
			Opacity	20% ^G	33.1-15-03-02
			Operating Hours	Cond. 1, Footnote C	33.1-15-14-06.4.c(3)(2) & 33.1-15-22-03, Subpart 4Z
Pulp pellet loadout	22	22	PM/PM ₁₀	1.0 lb/hr	33.1-15-02-07.1, ACP-17196 v1.0 & ACP-17816 v1.0
			Opacity	20% ^G	33.1-15-03-02
Pellet loading vacuum cleaning (pellet area)	23	23	PM	0.03 lb/hr	ACP-17196 v1.0
			PM ₁₀	0.03 lb/hr	ACP-17196 v1.0
			Opacity	20% ^G	33.1-15-03-02
Sugar Weibull bin No. 2 vacuum cleaning (sugar area)	24	24	PM	0.03 lb/hr	ACP-17196 v1.0
			PM ₁₀	0.03 lb/hr	ACP-17196 v1.0
			Opacity	20% ^G	33.1-15-03-02

- ^A Emission limits are based on a one-hour average, unless otherwise noted.
- ^B Use of biogas was authorized in a July 13, 2007 Department letter, biogas emissions were expected to be less than coal emissions and no biogas specific emission limits were established; however, the unit was still required to meet coal operation emission limits.
- ^C Total Selected Metals (TSM) - arsenic, beryllium, cadmium, chromium, lead, manganese, nickel and selenium
- ^D The lb/10⁶ Btu emission limits established by 40 CFR 63, Subpart 5D are more stringent than the lb/10⁶ Btu emission limits established by 40 CFR 60, Subpart Db.
- ^E 30-day rolling average

F The total allowable particulate emission rate from the pulp dryer (EU 3) is based on the process weight rate (p) which includes solid fuel and the following formulas up to a maximum of 52.0 lb/hr total particulate for the pulp dryer.

For process weight rates up to 30 tons/hr, where: p = process weight rate in tons/hr:
Allowable Emissions = $4.10 p^{0.67}$ (lb/hr)

Or

For process weight rates in excess of 30 tons/hr, where: p = process weight rate in tons/hr:
Allowable Emissions = $55.0 p^{0.11} - 40$ (lb/hr)

Applicable Requirements: NDAC 33.1-15-05-01.2 & PTC06001

G Opacity Limits: The following are applicable requirements referred to for the various emission units listed in Condition 3.

- 1) EU 1 and EU 2 (boilers No. 1 and 2) are subject to 10% opacity on a daily block average. This standard applies at all times.

Applicable Requirement NDAC 33.1-15-02-03, Subpart DDDDD (Table 4, Item No. 4)

- 2) EU 13 (biogas flare) is subject to 20% opacity, except that a maximum of 60% is permissible for not more than one six-minute period per hour. This standard applies at all times.

Applicable Requirement: NDAC 33.1-15-03-03.1

- 3) Units except EU 1 and EU 2 (boilers No. 1 and No. 2), EU 11 (lime kiln), EU 12 (lime slaker), EU 13 (biogas flare), and EU 23 (pellet loading vacuum cleaning/pellet area) are subject to 20% opacity except that a maximum of 40% is permissible for not more than one six-minute period per hour. This standard applies at all times.

Applicable Requirement: NDAC 33.1-15-03-02

4. **Monitoring Requirements and Conditions:**

A. **Requirements:**

Emission Unit Description	Pollutant/Parameter	Monitoring Requirement (Method)	Condition Number	NDAC Applicable Requirement
Foster-Wheeler boilers No. 1 and No. 2 EU 1 & 2/EP 1 & 2	Filterable PM (or TSM)	Emissions Test	4.B.13, 4.B.14	33.1-15-22-03, Subpart 5D
	PM/PM ₁₀	CAM	4.B.11	33.1-15-14-06.10
	SO ₂	CEMS/CERMS	4.B.2)b & c	33.1-15-14-06.5.a(3)(a)
	NO _x	CEMS/CERMS	4.B.2	33.1-15-12, Subpart Db
	CO	Emissions Test & O&M	4.B.13, 4.B.14, 4.B.15	33.1-15-22-03, Subpart 5D
	Hg	Emissions Test	4.B.13, 4.B.14	33.1-15-22-03, Subpart 5D
	HCl	Emissions Test	4.B.13, 4.B.14	33.1-15-22-03, Subpart 5D
	Opacity	COMS	4.B.4	33.1-15-22-03, Subpart 5D & 33.1-15-12, Subpart Db
Promill pulp dryer EU 3/EP 3A	PM/PM ₁₀ / Opacity	Emissions Test & CAM	4.B.3, 4.B.11	33.1-15-14-06.10 & 33.1-15-14-06.5.a(3)(a)
	SO ₂	Fuel Analysis & SO ₂ Calculation	4.B.1, 4.B.6	33.1-15-14-06.5.a(3)(a)
	NO _x	Emissions Test	4.B.3	33.1-15-14-06.5.a(3)(a)
	CO	Emissions Test	4.B.3	33.1-15-14-06.5.a(3)(a)
	VOC	Emissions Test	4.B.3	33.1-15-14-06.5.a(3)(a)
Sugar dryer/cooler EU 5/EP 5	PM/PM ₁₀ / Opacity	CAM	4.B.11	33.1-15-14-06.10
Pellet mills, pellet cooler, dry pulp & pellet equip. EU 7, 8 & 9/EP 7, 8 & 9	PM/PM ₁₀ / Opacity	Visible Emissions Observations (VEO) (EU 7 & 8)	4.B.5	33.1-15-14-06.5.a(2)(a)
		CAM (EU 9)	4.B.11	33.1-15-14-06.10

Emission Unit Description	Pollutant/Parameter	Monitoring Requirement (Method)	Condition Number	NDAC Applicable Requirement
Sugar loading area/silos including Rotex sugar screening station, scale and associated conveying EU 10/EP 10	PM/PM ₁₀ /Opacity	CAM	4.B.11	33.1-15-14-06.10
Lime kiln EU 11/EP 11	PM/PM ₁₀ /PM _{2.5} /Opacity	Emissions Test & Water Flow Rate	4.B.3 & 4.B.12	33.1-15-14-06.5.a(3)(a)
	SO ₂	O&M & Equipment Design	4.B.15 & 4.B.16	33.1-15-14-06.5.a(3)(a)
	NO _x	Emissions Test	4.B.3	33.1-15-01-12
	CO	Emissions Test	4.B.3	33.1-15-01-12
	VOC	O&M & Equipment Design	4.B.15 & 4.B.16	33.1-15-14-06.5.a(3)(a)
Lime slaker EU 12/EP 12A	PM/PM ₁₀ /PM _{2.5} /Opacity	Emissions Test & VEO	4.B.3, 4.B.5	33.1-15-01-12 & 33.1-15-14-06.5.a(3)(a)
Biogas flare EU 13/EP 13	H ₂ S	Gas Analysis	4.B.7	ACP-17993 v1.0
	SO ₂	Calculation	4.B.8	ACP-17993 v1.0
	Opacity	Recordkeeping	4.B.9	33.1-15-14-06.5.a(3)(a)
Pellet bins EU 15/EP 15A, 15B & 15C	PM/PM ₁₀ /Opacity	VEO	4.B.5	33.1-15-14-06.5.a(3)(a)
Diesel emergency fire pump engine EU 21/EP 21	NO _x /Opacity	Recordkeeping	4.B.17	33.1-15-14-06.5.a(3)(a)
	Operating Hours	Recordkeeping	4.B.10	33.1-15-22, Subpart ZZZZ
Pulp pellet loadout EU 22/EP 22	PM/PM ₁₀ /Opacity	CAM	4.B.11	33.1-15-14-06.10

B. Monitoring Conditions:

- 1) The sulfur content of the fuel used (coal) shall be analyzed with each shipment using ASTM or Department approved methods. The sulfur analysis for the fuel may be conducted by the permittee or by the source where the fuel is purchased. The permittee shall calculate sulfur dioxide emission rates for each shipment of fuel using the following equations or other methods approved by the Department.

- a) Pulp Dryer (EU 3/EP 3):

For Coal:

$$\text{SO}_2 \text{ emissions (lb per million Btu)} = 35S \times \text{ER} / \text{EC}$$

Where: 35S = Emission factor (lb/ton) for subbituminous coal, and S is weight % sulfur content in coal as fired; for lignite coal use 30S. (From AP-42, Fifth Edition.)

ER = Emission correction factor.

EC = As fired coal energy content in 10^6 Btu per ton.

Note: An emission correction factor for EU 3 (pulp dryer) shall be assumed to be 1 until supported with emissions data from the most recent, satisfactory test.

$$\text{SO}_2 \text{ emissions (lb/hr)} = \text{SO}_2 \text{ emissions (lb per million Btu)} \times \text{FR}$$

Where: FR = Firing rate of emission unit in 10^6 Btu per hour.

- 2) Monitoring Systems:

- a) The permittee shall conduct monitoring of NO_x emissions in accordance with 40 CFR 60, Subpart Db.

The permittee shall calibrate, operate and maintain a system for continuously monitoring and recording NO_x on a $\text{lb}/10^6$ Btu basis. The monitoring and recording shall be in accordance with the requirements for Notification and Recordkeeping (40 CFR 60.7) and monitoring requirements (40 CFR 60.13) as adopted by reference in the North Dakota Air Pollution Control Rules under section 33.1-15-12-02 or quality assurance procedures approved in advance by the Department.

The quality assurance requirements applicable to the CEMS are specified in Appendix F of 40 CFR 60.

- b) CEMS/CERMS: The monitoring systems shall report NO_x and SO_2 emissions on a $\text{lb}/10^6$ Btu and lb/hr basis. The continuous emission monitoring systems (CEMS) and continuous emission rate monitoring systems (CERMS) shall be used to determine compliance with the NO_x and SO_2 emission limits applicable to EU 1 and EU 2. The CEMS and the CERMS shall be certified to comply with the applicable requirements of 40 CFR 60, Appendix B, Performance Specification 2 for a CEMS and Performance Specification 6 for a CERMS. A relative accuracy test audit (RATA) shall be conducted annually on the NO_x and SO_2 CEMS and CERMS in accordance with the applicable procedures in 40 CFR 60, Appendix B,

Performance Specification 2 for a CEMS and Performance Specification 6 for a CERMS.

- c) When a failure of a CEMS or CERMS occurs, an alternative method, acceptable to the Department, for measuring or estimating emissions must be undertaken as soon as possible. Timely repair of the emission monitoring system must be made. The Department may require additional audits of the CEMs.
- 3) Within two years following issuance of a renewal permit, to provide a reasonable assurance of compliance, an emissions test shall be conducted to measure PM/PM₁₀, NO_x, CO and volatile organic compounds (VOC) emissions from EU 3 (pulp dryer), PM/PM₁₀/PM_{2.5}, NO_x and CO emissions from EU 11 (lime kiln) and PM/PM₁₀/PM_{2.5} emissions from EU 12 (lime slaker). The emissions tests shall be conducted using EPA Test Methods in 40 CFR 60, Appendix A or at a minimum a portable analyzer method approved by the Department. A test shall consist of three runs, with each run one hour in length for particulate and twenty minutes in length for NO_x, CO and VOC. Other test methods may be used provided they are approved in advance by the Department.
 - 4)
 - a) Monitoring of opacity shall be in accordance with the requirements of 40 CFR 60, Subpart Db, Section 60.48b, as incorporated by reference into NDAC 33.1-15-12 and 40 CFR 63, Subpart DDDDD, as incorporated by reference into NDAC 33.1-15-22-03. Monitoring shall be in accordance with the requirements of 40 CFR 60, Subpart A, Section 60.13, Monitoring Requirements and 40 CFR 60, Appendix F, Procedure 3 - Quality Assurance Procedures for Continuous Opacity Monitoring Systems at Stationary Sources as incorporated by reference into NDAC 33.1-15-12. The requirements of 40 CFR 60, Appendix F, Procedure 3 include daily calibration checks, quarterly performance audits and annual primary zero alignment under clear path conditions.
 - b) The permittee shall conduct performance evaluations of the continuous opacity monitoring system with quarterly performance audits and annual zero alignments in accordance with 40 CFR 60 Appendix F, Procedure 3. For the performance evaluation, conformance with the specification for calibration error, Section 13.3 Field Audit Performance Specifications, Paragraph (2) Calibration Error of 40 CFR 60, Appendix B, Performance Specification 1 must be demonstrated. Quarterly assessments may be reduced in frequency to semi-annual with four consecutive quarters of quality-assured data (40 CFR 60 Appendix F, Procedure 3, Section 2.0)
 - c) When a failure of the opacity monitor occurs, an alternative method, acceptable to the Department, for measuring or estimating the opacity must be undertaken as soon as possible. Timely repair of the emission monitoring system must be made.
 - d) The Department may require additional audits of the opacity monitor.

- 5) Once per week in which the emission unit is operated, a company representative shall observe the emission point. If no visible emissions are observed, the date and time shall be recorded.

If visible emissions are observed, the permittee must investigate the problem within eight hours. Any problems that are discovered must be corrected as soon as possible. If correcting the problem is expected to take longer than 24 hours, the permittee shall follow procedures as outlined in Condition 8.G. Following appropriate corrective action, an EPA Reference Method 9 shall be made to confirm the reestablishment of compliance with the emission limit.

All investigations of malfunctions and visible emissions shall be recorded. The permittee shall comply with the applicable visible emissions and particulate emission limits in Condition No. 3 (emission unit limits) and nothing in this condition shall be construed as authorizing otherwise.

- 6) To verify the SO₂ emissions calculation formula for coal listed in Condition 4.B.1, stack testing shall be conducted within two years of issuance of a renewal permit on emission unit EU 3 (pulp dryer). Any actual emission deviation shall be accounted for in the SO₂ emission formula in Condition 4.B.1. More frequent testing may be conducted by the permittee to modify the equation with the Department's prior approval.
- 7) At least once per month when biogas is being combusted in the biogas flare (EU 13), the biogas hydrogen sulfide concentration (ppm) by volume shall be measured and recorded.
- 8) By the 15th day of each month, the permittee shall calculate and record the sulfur dioxide emissions for the previous month and for the previous 12-month period (12-month rolling total) from the biogas flare (EU 13) using the following equation.

$$\text{SO}_2 \text{ emissions (12-month rolling total)} = (\% \text{H}_2\text{S}) \times (0.16 \text{GF}) \times (1 \text{ ton}/2000 \text{ lb})$$

Where:

%H₂S = decimal fraction of H₂S in biogas recorded during previous month (by volume)

GF = total gas flared in cubic feet during previous 12-months

$$0.16 \text{ lb/scf} = (1 \text{ lb-mole}/392 \text{ scf}) \times (64.1 \text{ lb SO}_2/\text{lb-mole})$$

- a) If the SO₂ emissions exceed 50.26 tons in any 12-month rolling period, the Department shall be notified by the 25th day of the month in which the calculation was made.
- 9) For purposes of compliance monitoring, burning of biogas shall be considered credible evidence of compliance with the applicable opacity standard. However, results from 40

CFR 60, Appendix A, Method 9 - Visual Determination of the Opacity of Emissions from Stationary Sources will take precedence over burning of biogas for evidence of compliance or noncompliance with the applicable opacity standard in the event of enforcement action.

- 10) A log shall be kept of the total hours of operation on a calendar year basis for engines. Records shall be maintained to differentiate annual emergency vs. non-emergency/maintenance/etc. hours of operation.
- 11) The permittee shall conduct the monitoring, recordkeeping and reporting as required by the applicable subparts of 40 CFR 64 and shall be conducted in accordance with the Compliance Assurance Monitoring (CAM) Plan in Attachment A of this permit. The measured indicator ranges for emission units subject to CAM are as follows:

Indicator Ranges

Emission Unit Description	EU/EP	Control Equipment/ Pollutant Monitored	Indicator Range (s)
Boiler 1 & 2	1/1 & 2/2	ESP/PM, PM ₁₀	>6% opacity (3-hr avg.: Investigate) >9% opacity (3-hr avg.: Excursion) (Frequency: continuous by opacity monitor, 24-hr avg.)
Pulp dryer	3/3A	Two cyclones followed by a wet scrubber/PM, PM ₁₀ & opacity	Cyclone: Pressure drop of 3.0-6.0 inches of water (Frequency: continuous, 1-hr avg.) Wet Scrubber: Water flow rate of ≥4,000 gpm (Frequency: continuous, 1-hr avg.)
Sugar dryer/cooler	5/5	Baghouse/PM, PM ₁₀ & opacity	No visible emissions (Frequency: daily)
Pellet mill area	9/9	Two baghouses/PM, PM ₁₀ & opacity	No visible emissions (Frequency: daily)
Sugar screen/scale/conveyors	10/10	Baghouse/PM, PM ₁₀ & opacity	No visible emissions (Frequency: daily)
Pulp pellet loadout	22/22	Baghouse/PM, PM ₁₀ & opacity	No visible emissions (Frequency: daily)

- 12) The permittee shall continuously monitor the water flow rate of the gas washer venturi scrubber during operation of the lime kiln (EU 11). The calculated one-hour average water flow rate shall be maintained at greater than 30 gallons per minute to assure compliance with the applicable particulate matter and opacity standards. The permittee may elect to perform additional testing to reestablish the flow rate. Routine observations and maintenance shall be performed on the kiln.
- 13) Conduct all applicable performance tests according to 40 CFR 63, Subpart DDDDD §63.7520 on an annual basis, except as specified in paragraphs (b) through (e), (g), and (h) of §63.7515. Annual performance tests to demonstrate compliance with the filterable PM

(or TSM), CO, Hg and HCl must be completed no more than 13 months after the previous performance test, except as specified in paragraphs (b) through (e), (g), and (h) of §63.7515.

- 14) Demonstrate continuous compliance with 40 CFR 63, Subpart 5D emission limitations, fuel specifications, monitoring and work practice standards in accordance with NDAC 33.1-15-22-03, Subpart 5D.
 - a) For the boilers subject to a CO emission limit (EU 1 and EU 2) that demonstrate compliance with an O₂ analyzer system as specified in §63.7525(a), maintain the 30-day rolling average oxygen content at or above the lowest hourly average oxygen concentration measured during the CO performance test, as specified in table 8.
- 15) The manufacturer's recommended operations and maintenance (O&M) procedures, or a site-specific O&M procedure (developed from the manufacturer's recommended O&M procedures), shall be followed to assure proper operation of the emission unit. The permittee shall have the O&M procedures available on-site and provide the Department with a copy when requested.
- 16) Compliance with SO₂ and VOC emission limitations for the lime kiln (EU 11) is demonstrated through worst-case potential emission calculations and margin of compliance with applicable limits. The Permittee shall maintain proper operation of inherent process controls as required for other emission limits, follow good combustion practices, and not alter kiln design or fuel combustion parameters.
- 17) For purposes of compliance monitoring, burning of fuel in compliance with Condition 2.B.3 shall be considered credible evidence of compliance with any applicable NO_x and opacity emission limit. However, results from tests conducted in accordance with the test methods in 40 CFR 50, 51, 60, 61, or 75 will take precedence over the burning of fuel as outlined in Condition 2.B.3 for evidence of compliance or noncompliance with any applicable NO_x and opacity limit, in the event of enforcement action.

5. **Recordkeeping Requirements:**

- A. The permittee shall maintain compliance monitoring records as outlined in the Monitoring Records table that include the following information.
 - 1) The date, place (as defined in the permit) and time of sampling or measurement.
 - 2) The date(s) testing was performed.
 - 3) The company, entity, or person that performed the testing.
 - 4) The testing techniques or methods used.

- 5) The results of such testing.
- 6) The operating conditions that existed at the time of sampling or measurement.

Applicable Requirement: NDAC 33.1-15-14-06.5.a(3)(b)[1]

Monitoring Records

Emission Unit Description	EU	Pollutant/ Parameter	Compliance Monitoring Record
Foster-Wheeler boilers No. 1 and No. 2	1 & 2	Filterable PM (or TSM) PM/PM ₁₀ SO ₂ NO _x CO Hg HCl Opacity	Emissions Test Data CAM Data CEMS/CERMS Data CEMS/CERMS Data Emissions Test Data & O&M Data Emissions Test Data Emissions Test Data COMS Data
Promill pulp dryer	3	PM/PM ₁₀ /Opacity SO ₂ NO _x CO VOC	Emissions Test Data & CAM Data Sulfur analysis & SO ₂ calculations (based on stack testing required by Condition 4.B.6) Emissions Test Data Emissions Test Data Emissions Test Data
Sugar dryer/cooler	5	PM/PM ₁₀ /Opacity	CAM Data
Pellet mills, pellet cooler, dry pulp & pellet equip.	7, 8 & 9	PM/PM ₁₀ /Opacity	Visible Emissions Observations (VEO) Data (EU 7 & EU 8) CAM Data (EU 9)
Sugar screen/scale/conveyors	10	PM/PM ₁₀ /Opacity	CAM Data

Emission Unit Description	EU	Pollutant/ Parameter	Compliance Monitoring Record
Lime kiln	11	PM/PM ₁₀ /PM _{2.5} /Opacity	Emissions Test Data & Water Flow Rate Data
		SO ₂	O&M Data & Equipment Design
		NO _x	Emissions Test Data
		CO	Emissions Test Data
		VOC	O&M Data & Equipment Design
Lime slaker	12	PM/PM ₁₀ /PM _{2.5} /Opacity	Emissions Test Data & VEO Data
Biogas flare	13	H ₂ S	Gas Analysis Data
		SO ₂	Emissions Calculation Data
		Opacity	Type of Fuel Usage
Pellet bins	15	PM/PM ₁₀ /Opacity	VEO Data
Diesel emergency fire pump engine	21	NO _x /Opacity	Type of Fuel Usage
		Operating Hours	Hours of Operation Data
Pulp pellet loadout	22	PM/ PM ₁₀ /Opacity	CAM Data

B. In addition to requirements outlined in Condition 5.A, recordkeeping for EU 1, 2, 3, 5, 9, 10 and 22 shall be in accordance with the following applicable requirements of the North Dakota Air Pollution Control Rules (NDAC) 33.1-15-06, 33.1-15-12, 33.1-15-14-06.10 and 33.1-15-22, as applicable:

- 1) NDAC 33.1-15-06-05, Reporting and Recordkeeping Requirements
- 2) NDAC 33.1-15-12, Subpart A, §60.7, Notification and Recordkeeping
- 3) NDAC 33.1-15-12, Subpart Db, §60.49b, Reporting and Recordkeeping Requirements
- 4) NDAC 33.1-15-14-06.10, CAM, §64.9, Reporting and Recordkeeping Requirements, Paragraph (b) General Recordkeeping Requirements
- 5) NDAC 33.1-15-22, Subpart A, §63.10, Recordkeeping and Reporting Requirements
- 6) NDAC 33.1-15-22, Subpart DDDDD, Notification, Reports and Records

Applicable Requirements: NDAC 33.1-15-06, NDAC 33.1-15-12, NDAC 33.1-15-14-06.10 and NDAC 33.1-15-22

- C. The permittee shall retain records of all required monitoring data and support information for a period of at least five years from the date of the monitoring sampling, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings/computer printouts of continuous monitoring instrumentation, and copies of all reports required by the permit.

Applicable Requirement: NDAC 33.1-15-14-06.5.a(3)(b)[2]

6. **Reporting:**

- A. For EU 1, 2, 3, 5, 9, 10 and 22, reporting shall be in accordance with the following requirements of the North Dakota Air Pollution Control Rules (NDAC) 33.1-15-06, 33.1-15-12, 33.1-15-14-06.10 and 33.1-15-22, as applicable:

- 1) NDAC 33.1-15-06-05, Reporting and Recordkeeping Requirements
- 2) NDAC 33.1-15-12, Subpart A, §60.7, Notification and Recordkeeping
- 3) NDAC 33.1-15-12, Subpart Db, §60.49b, Reporting and Recordkeeping Requirements
- 4) NDAC 33.1-15-14-06.10, CAM, §64.9, Reporting and Recordkeeping Requirements, Paragraph (a) General Reporting Requirements
- 5) NDAC 33.1-15-22, Subpart A, §63.10, Recordkeeping and Reporting Requirements
- 6) NDAC 33.1-15-22, Subpart DDDDD, Notification, Reports and Records
- 7) Quarterly excess emissions reports for EU 1 and EU 2 shall be submitted by the 30th day following the end of each calendar quarter. Excess emissions are defined as emissions which exceed the emission limits for EU 1 and EU 2 as outlined in Condition 3. Excess emissions shall be reported for the following:

Parameter	Reporting Period
SO ₂ lb/10 ⁶ Btu	1-hour average
SO ₂ lb/hr	1-hour average
NO _x lb/10 ⁶ Btu	30-day rolling average
NO _x lb/hr	30-day rolling average
Opacity %	6-minute average

Applicable Requirements: NDAC 33.1-15-06, NDAC 33.1-15-12, NDAC 33.1-15-14-06.10 and NDAC 33.1-15-22

- B. The permittee shall submit a semi-annual monitoring report for all monitoring records required under Condition 5 in a format provided or approved by the Department. All instances of deviations from the permit must be identified in the report. A monitoring report shall be submitted within 45

days after June 30 and December 31 of each year. Semi-annual reporting required by NDAC 33.1-15-22-03, Subpart 5D (§63.7550) shall be included in this report

Applicable Requirements: NDAC 33.1-15-14-06.5.a(3)(c)[1] and [2] and NDAC 33.1-15-22-03, Subpart 5D

- C. The permittee shall submit an annual compliance certification report in accordance with NDAC 33.1-15-14-06.5.c(5) within 45 days after December 31 of each year in a format provided or approved by the Department.

Applicable Requirement: NDAC 33.1-15-14-06.5.c(5)

- D. For emission units where the method of compliance monitoring is demonstrated by an EPA Test Method or a portable analyzer test, the test report shall be submitted to the Department within 60 days after completion of the test.

Applicable Requirement: NDAC 33.1-15-14-06.5.a(6)(e)

- E. The permittee shall submit an annual emission inventory report in a format provided or approved by the Department. This report shall be submitted by March 15 of each year. Insignificant units/activities listed in this permit do not need to be included in the report.

Applicable Requirements: NDAC 33.1-15-14-06.5.a(7) and NDAC 33.1-15-23-04

7. Facility Wide Operating Conditions:

A. Ambient Air Quality Standards:

- 1) Particulate and gases. The permittee shall not emit air contaminants in such a manner or amount that would violate the standards of ambient air quality listed in Table 1 of NDAC 33.1-15-02, external to buildings, to which the general public has access.
- 2) Radioactive substances. The permittee shall not release into the ambient air any radioactive substances exceeding the concentrations specified in NDAC 33.1-10.
- 3) Other air contaminants. The permittee shall not emit any other air contaminants in concentrations that would be injurious to human health or well-being or unreasonably interfere with the enjoyment of property or that would injure plant or animal life.
- 4) Disclaimer. Nothing in any other part or section of this permit may in any manner be construed as authorizing or legalizing the emission of air contaminants in such manner that would violate the standards in Paragraphs 1), 2) and 3) of this condition.

Applicable Requirements: NDAC 33.1-15-02-04 and 40 CFR 50.1(e)

- B. **Fugitive Emissions:** The release of fugitive emissions shall comply with the applicable requirements in NDAC 33.1-15-17.

Applicable Requirement: NDAC 33.1-15-17

- C. **Open Burning:** The permittee may not cause, conduct, or permit open burning of refuse, trade waste, or other combustible material, except as provided for in Section 33.1-15-04-02 and may not conduct, cause, or permit the conduct of a salvage operation by open burning. Any permissible open burning under NDAC 33.1-15-04-02 must comply with the requirements of that section.

Applicable Requirement: NDAC 33.1-15-04

- D. **Asbestos Renovation or Demolition:** Any asbestos renovation or demolition at the facility shall comply with emission standard for asbestos in NDAC 33.1-15-13.

Applicable Requirement: NDAC 33.1-15-13-02

- E. **Requirements for Organic Compounds Gas Disposal:**

- 1) Any organic compounds, gases and vapors which are generated as wastes as the result of storage, refining or processing operations and which contain hydrogen sulfide shall be incinerated, flared or treated in an equally effective manner before being released into the ambient air.
- 2) Each flare must be equipped and operated with an automatic ignitor or a continuous burning pilot.

Applicable Requirement: NDAC 33.1-15-07-02

- F. **Rotating Pumps and Compressors:** All rotating pumps and compressors handling volatile organic compounds must be equipped and operated with properly maintained seals designed for their specific product service and operating conditions.

Applicable Requirement: NDAC 33.1-15-07-01.5

- G. **Shutdowns/Malfunction/Continuous Emission Monitoring System Failure:**

- 1) Maintenance Shutdowns. In the case of shutdown of air pollution control equipment for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Department at least 24 hours prior to the planned shutdown provided that the air contaminating source will be operated while the control equipment is not in service. Such prior notice shall include the following:
 - a) Identification of the specific facility to be taken out of service as well as its location and permit number.

- b) The expected length of time that the air pollution control equipment will be out of service.
- c) The nature and estimated quantity of emissions of air pollutants likely to be emitted during the shutdown period.
- d) Measures, such as the use of off-shift labor and equipment, that will be taken to minimize the length of the shutdown period.
- e) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period.
- f) Nothing in this subsection shall in any manner be construed as authorizing or legalizing the emission of air contaminants in excess of the rate allowed by this article or a permit issued pursuant to this article.

Applicable Requirement: NDAC 33.1-15-01-13.1

2) Malfunctions.

- a) When a malfunction in any installation occurs that can be expected to last longer than 24 hours and cause the emission of air contaminants in violation of this article or other applicable rules and regulations, the person responsible for such installation shall notify the Department of such malfunction as soon as possible during normal working hours. The notification must contain a statement giving all pertinent facts, including the estimated duration of the breakdown. The Department shall be notified when the condition causing the malfunction has been corrected.
- b) Immediate notification to the Department is required for any malfunction that would threaten health or welfare or pose an imminent danger. During normal working hours the Department can be contacted at 701-328-5188. After hours the Department can be contacted through the 24-hour state radio emergency number 1-800-472-2121. If calling from out of state, the 24-hour number is 701-328-9921.
- c) Unavoidable Malfunction. The owner or operator of a source who believes any excess emissions resulted from an unavoidable malfunction shall submit a written report to the Department which includes evidence that:
 - [1] The excess emissions were caused by a sudden, unavoidable breakdown of technology that was beyond the reasonable control of the owner or operator.
 - [2] The excess emissions could not have been avoided by better operation and maintenance, did not stem from an activity or event that could have been foreseen and avoided, or planned for.

- [3] To the extent practicable, the source maintained and operated the air pollution control equipment and process equipment in a manner consistent with good practice for minimizing emissions, including minimizing any bypass emissions.
- [4] Any necessary repairs were made as quickly as practicable, using off-shift labor and overtime as needed and possible.
- [5] All practicable steps were taken to minimize the potential impact of the excess emissions on ambient air quality.
- [6] The excess emissions are not part of a recurring pattern that may have been caused by inadequate operation or maintenance, or inadequate design of the malfunctioning equipment.

The report shall be submitted within 30 days of the end of the calendar quarter in which the malfunction occurred or within 30 days of a written request by the Department, whichever is sooner.

The burden of proof is on the owner or operator of the source to provide sufficient information to demonstrate that an unavoidable equipment malfunction occurred. The Department may elect not to pursue enforcement action after considering whether excess emissions resulted from an unavoidable equipment malfunction. The Department will evaluate, on a case-by-case basis, the information submitted by the owner or operator to determine whether to pursue enforcement action.

Applicable Requirement: NDAC 33.1-15-01-13.2

- 3) **Continuous Emission Monitoring System Failures.** When a failure of a continuous emission monitoring system occurs, an alternative method for measuring or estimating emissions must be undertaken as soon as possible. The owner or operator of a source that uses an alternative method shall have the burden of demonstrating that the method is accurate. Timely repair of the emission monitoring system must be made. The provisions of this subsection do not apply to sources that are subject to monitoring requirements in Chapter 33.1-15-21 (40 CFR 75, Acid Rain Program).

Applicable Requirement: NDAC 33.1-15-01-13.3

H. **Noncompliance Due to an Emergency:** The permittee may seek to establish that noncompliance with a technology-based emission limitation under this permit was due to an emergency. To do so, the permittee shall demonstrate the affirmative defense of emergency through properly signed, contemporaneous operating logs, or other relevant evidence that:

- 1) An emergency occurred, and that the permittee can identify the cause(s) of the emergency;
- 2) The permitted facility was at the time being properly operated;

- 3) 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 in this permit; and
- 4) The permittee submitted notice of the emergency to the Department within one working day of the time when emission limitations were exceeded longer than 24-hours due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. Those emergencies not reported within one working day, as well as those that were, will be included in the semi-annual report.

In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

Technology-based emission limits are those established on the basis of emission reductions achievable with various control measures or process changes (e.g., a New Source Performance Standard) rather than those established to attain a health-based air quality standard.

An “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of this source, including acts of God, which requires immediate corrective action to restore normal operation, and that causes this source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

Applicable Requirement: NDAC 33.1-15-14-06.5.g

- I. **Air Pollution from Internal Combustion Engines:** The permittee shall comply with all applicable requirements of NDAC 33.1-15-08-01 – Internal Combustion Engine Emissions Restricted.

Applicable Requirement: NDAC 33.1-15-08-01

- J. **Prohibition of Air Pollution:**

- 1) The permittee shall not permit or cause air pollution, as defined in NDAC 33.1-15-01-04.
- 2) Nothing in any other part of this permit or any other regulation relating to air pollution shall in any manner be construed as authorizing or legalizing the creation or maintenance of air pollution.

Applicable Requirement: NDAC 33.1-15-01-15

K. Performance Tests:

- 1) The Department may reasonably require the permittee to make or have made tests, at a reasonable time or interval, to determine the emission of air contaminants from any source, for the purpose of determining whether the permittee is in violation of any standard or to satisfy other requirements of NDCC 23.1-06. All tests shall be made, and the results calculated in accordance with test procedures approved or specified by the Department including the North Dakota Department of Environmental Quality Emission Testing Guideline. All tests shall be conducted by reputable, qualified personnel. The Department shall be given a copy of the test results in writing and signed by the person responsible for the tests.
- 2) The Department may conduct tests of emissions of air contaminants from any source. Upon request of the Department, the permittee shall provide necessary and adequate access into stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices, as may be necessary for proper determination of the emission of air contaminants.

Applicable Requirement: NDAC 33.1-15-01-12

- 3) Except for sources subject to 40 CFR 63, the permittee shall notify the Department by submitting a Proposed Test Plan, or its equivalent, at least 30 calendar days in advance of any tests of emissions of air contaminants required by the Department. The permittee shall notify the Department at least 60 calendar days in advance of any performance testing required under 40 CFR 63, unless otherwise specified by the subpart. If the permittee is unable to conduct the performance test on the scheduled date, the permittee shall notify the Department as soon as practicable when conditions warrant and shall coordinate a new test date with the Department.

Failure to give the proper notification may prevent the Department from observing the test. If the Department is unable to observe the test because of improper notification, the test results may be rejected.

Applicable Requirements: NDAC 33.1-15-14-06.5.a(3)(a), NDAC 33.1-15-12-02 Subpart A (40 CFR 60.8), NDAC 33.1-15-13-01.2 Subpart A (40 CFR 61.13), NDAC 33.1-15-22-03 Subpart A (40 CFR 63.7)

- L. Pesticide Use and Disposal:** Any use of a pesticide or disposal of surplus pesticides and empty pesticide containers shall comply with the requirements in NDAC 33.1-15-10.

Applicable Requirements: NDAC 33.1-15-10-01 and NDAC 33.1-15-10-02

- M. Air Pollution Emergency Episodes:** When an air pollution emergency episode is declared by the Department, the permittee shall comply with the requirements in NDAC 33.1-15-11.

Applicable Requirements: NDAC 33.1-15-11-01 through NDAC 33.1-15-11-04

N. **Stratospheric Ozone Protection:** The permittee shall comply with any applicable standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for MVACs in Subpart B:

- 1) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to Section 82.156.
- 2) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to Section 82.158.
- 3) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to Section 82.161.
- 4) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to Section 82.156.

Applicable Requirement: 40 CFR 82

O. **Chemical Accident Prevention:** The permittee shall comply with all applicable requirements of Chemical Accident Prevention pursuant to 40 CFR 68. The permittee shall comply with the requirements of this part no later than the latest of the following dates:

- 1) Three years after the date on which a regulated substance is first listed under this part; or
- 2) The date on which a regulated substance is first present above a threshold quantity in a process.

Applicable Requirement: 40 CFR 68

P. **Air Pollution Control Equipment:** The permittee shall maintain and operate air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. The manufacturer's recommended Operations and Maintenance (O&M) procedures, or a site-specific O&M procedure developed from the manufacturer's recommended O&M procedures, shall be followed to assure proper operation and maintenance of the equipment. The permittee shall have the O&M procedures available onsite and provide the Department with a copy when requested.

Applicable Requirement: NDAC 33.1-15-14-06.5.b(1)

Q. **Prevention of Significant Deterioration of Air Quality** (40 CFR 52.21 as incorporated by NDAC Chapter 33.1-15-15): If this facility is classified as a major stationary source under the Prevention of Significant Deterioration of Air Quality (PSD) rules, a Permit to Construct must be obtained from the Department for any project which meets the definition of a "major modification" under 40 CFR 52.21(b)(2).

If this facility is classified as a major stationary source under the PSD rules and the permittee elects to use the method specified in 40 CFR 52.21(b)(41)(ii)(a) through (c) for calculating the projected actual emissions of a proposed project, then the permittee shall comply with all applicable requirements of 40 CFR 52.21(r)(6).

Applicable Requirement: NDAC 33.1-15-15-01.2

8. **General Conditions:**

- A. **Annual Fee Payment:** The permittee shall pay an annual fee, for administering and monitoring compliance, which is determined by the actual annual emissions of regulated contaminants from the previous calendar year. The Department will send a notice, identifying the amount of the annual permit fee, to the permittee of each affected installation. The fee is due within 60 days following the date of such notice. Any source that qualifies as a “small business” may petition the Department to reduce or exempt any fee required under this section. Failure to pay the fee in a timely manner or submit a certification for exemption may cause this Department to initiate action to revoke the permit.

Applicable Requirements: NDAC 33.1-15-14-06.5.a(7) and NDAC 33.1-15-23-04

- B. **Permit Renewal and Expiration:** This permit shall be effective from the date of its issuance for a fixed period of five years. The permittee’s right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least six months, but no more than 18 months, prior to the date of permit expiration. The Department shall approve or disapprove the renewal application within 60 days of receipt. Unless the Department requests additional information or otherwise notifies the applicant of incompleteness, the application shall be deemed complete. For timely and complete renewal applications for which the Department has failed to issue or deny the renewal permit before the expiration date of the previous permit, all terms and conditions of the permit, including any permit shield previously granted shall remain in effect until the renewal permit has been issued or denied. The application for renewal shall include the current permit number, description of any permit revisions and off-permit changes that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term.

Applicable Requirements: NDAC 33.1-15-14-06.4 and NDAC 33.1-15-14-06.6

- C. **Transfer of Ownership or Operation:** This permit may not be transferred except by procedures allowed in Chapter 33.1-15-14 and is to be returned to the Department upon the destruction or change of ownership of the source unit(s), or upon expiration, suspension or revocation of this permit. A change in ownership or operational control of a source is treated as an administrative permit amendment if no other change in the permit is necessary and 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 Department.

Applicable Requirement: NDAC 33.1-15-14-06.6.d

- D. **Property Rights:** This permit does not convey any property rights of any sort, or any exclusive privilege.

Applicable Requirement: NDAC 33.1-15-14-06.5.a(6)(d)

- E. **Submissions:**

- 1) Reports, test data, monitoring data, notifications, and requests for renewal shall be submitted to the Department using a format provided or approved by the Department. Physical submittals shall be submitted to:

North Dakota Department of Environmental Quality
Division of Air Quality
4201 Normandy Street, 2nd Floor
Bismarck, ND 58503-1324

- 2) Any application form, report or compliance certification submitted shall be certified as being true, accurate, and complete by a responsible official.

Applicable Requirement: NDAC 33.1-15-14-06.4.d

- F. **Right of Entry:** Any duly authorized officer, employee or agent of the North Dakota Department of Environmental Quality may enter and inspect any property, premise or place listed on this permit or where records are kept concerning this permit at any reasonable time for the purpose of ascertaining the state of compliance with this permit and the North Dakota Air Pollution Control Rules. The Department may conduct tests and take samples of air contaminants, fuel, processing material, and other materials which affect or may affect emissions of air contaminants from any source. The Department shall have the right to access and copy any records required by the Department's rules and to inspect monitoring equipment located on the premises.

Applicable Requirements: NDAC 33.1-15-14-06.5.c(2) and NDAC 33.1-15-01-06

- G. **Compliance:** The permittee must comply with all conditions of this permit. Any noncompliance with a federally-enforceable permit condition constitutes a violation of the Federal Clean Air Act. Any noncompliance with any State enforceable condition of this permit constitutes a violation of NDCC Chapter 23.1-06 and NDAC 33.1-15. Violation of any condition of this permit is grounds for enforcement action, for permit termination, revocation and reissuance or modification, or for denial of a permit renewal application. Noncompliance may also be grounds for assessment of penalties under the NDCC 23.1-06. 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 this permit.

Applicable Requirements: NDAC 33.1-15-14-06.5.a(6)(a) and NDAC 33.1-15-14-06.5.a(6)(b)

- H. **Duty to Provide Information:** The permittee shall furnish to the Department, within a reasonable time, any information that the Department 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. This includes instances where an alteration, repair, expansion, or change in method of operation of the source occurs. Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to keep by this permit, or for information claimed to be confidential, the permittee may furnish such recourse directly to the Department along with a claim of confidentiality. The permittee, upon becoming aware that any relevant facts were omitted, or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information. Items that warrant supplemental information submittal include, but are not limited to, changes in the ambient air boundary and changes in parameters associated with emission points (i.e., stack parameters). The permittee shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit.

Applicable Requirements: NDAC 33.1-15-14-06.5.a(6)(e), NDAC 33.1-15-14-06.6.b(3) and NDAC 33.1-15-14-06.4.b

I. **Reopening for Cause:** The Department will reopen and revise this permit as necessary to remedy deficiencies in the following circumstances:

- 1) Additional applicable requirements under the Federal Clean Air Act become applicable to the permittee with a remaining permit term of three or more years. Such a reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the expiration date of this permit.
- 2) The Department or the United States Environmental Protection Agency determines that this permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
- 3) The Department or the United States Environmental Protection Agency determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- 4) Reopenings shall not be initiated before a notice of intent to reopen is provided to the permittee by the Department at least 30 days in advance of the date that this permit is to be reopened, except that the Department may provide a shorter time period in the case of an emergency. Proceedings to reopen and issue this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable.

Applicable Requirement: NDAC 33.1-15-14-06.6.f

J. **Permit Changes:** The 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.

Applicable Requirement: NDAC 33.1-15-14-06.5.a(6)(c)

K. **Off-Permit Changes:** A permit revision is not required for changes that are not addressed or prohibited by this permit, provided the following conditions are met:

- 1) No such change may violate any term or condition of this permit.
- 2) Each change must comply with all applicable requirements.
- 3) Changes under this provision may not include changes or activities subject to any requirement under Title IV or that are modifications under any provision of Title I of the Federal Clean Air Act.
- 4) A Permit to Construct under NDAC 33.1-15-14-02 has been issued, if required.
- 5) Before the permit change is made, the permittee must provide written notice to both the Department and Air Program (8P-AR), Office of Partnerships & Regulatory Assistance, US EPA Region 8, 1595 Wynkoop Street, Denver, CO 80202-1129, except for changes that qualify as insignificant activities in Section 33.1-15-14-06. This notice shall describe each change, the date of the change, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result.
- 6) The permittee shall record all changes that result in emissions of any regulated air pollutant subject to any applicable requirement not otherwise regulated under this permit, and the emissions resulting from those changes. The record shall reside at the permittee's facility.

Applicable Requirement: NDAC 33.1-15-14-06.6.b(3)

L. **Administrative Permit Amendments:** This permit may be revised through an administrative permit amendment, if the revision to this permit accomplishes one of the following:

- 1) Corrects typographical errors.
- 2) Identifies a change in the name, address or phone number of any person identified in this permit or provides a similar minor administrative change at the source.
- 3) Requires more frequent monitoring or reporting by the permittee.
- 4) Allows for a change in ownership or operational control of the source where the Department 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 Department.

- 5) Incorporates into the Title V permit the requirements from a Permit to Construct when the review was substantially equivalent to Title V requirements for permit issuance, renewal, reopenings, revisions and permit review by the United States Environmental Protection Agency and affected state review, that would be applicable to the change if it were subject to review as a permit modification and compliance requirements substantially equivalent to Title V requirements for permit content were contained in the Permit to Construct.
- 6) Incorporates any other type of change which the Administrator of the United States Environmental Protection Agency has approved as being an administrative permit amendment as part of the Department's approved Title V operating permit program.

Applicable Requirement: NDAC 33.1-15-14-06.6.d

M. **Minor Permit Modification:** This permit may be revised by a minor permit modification, if the proposed permit modification meets the following requirements:

- 1) Does not violate any applicable requirement.
- 2) Does not involve significant changes to existing monitoring, reporting, or recordkeeping requirements in this permit.
- 3) Does not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis.
- 4) Does 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 to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include a federally enforceable emissions cap assumed to avoid classification as a modification under any provision of Title I of the Federal Clean Air Act; and alternative emissions limit approved pursuant to regulations promulgated under Section 112(i)(5) of the Federal Clean Air Act.
- 5) Is not a modification under NDAC 33.1-15-12, 33.1-15-13, and 33.1-15-15 or any provision of Title I of the Federal Clean Air Act.
- 6) Is not required to be processed as a significant modification.

Applicable Requirement: NDAC 33.1-15-14-06.6.e(1)

N. **Significant Modifications:**

- 1) Significant modification procedures shall be used for applications requesting permit modifications that do not qualify as minor permit modifications or as administrative amendments. Every significant change in existing monitoring permit terms or conditions and every relaxation of reporting or recordkeeping permit terms or conditions shall be

considered significant. Nothing therein shall be construed to preclude the permittee from making changes consistent with this subsection that would render existing permit compliance terms and conditions irrelevant.

- 2) Significant permit modifications shall meet all Title V requirements, including those for applications, public participation, review by affected states, and review by the United States Environmental Protection Agency, as they apply to permit issuance and permit renewal. The Department shall complete review of significant permit modifications within nine months after receipt of a complete application.

Applicable Requirement: NDAC 33.1-15-14-06.6.e(3)

- O. **Operational Flexibility:** The permittee is allowed to make a limited class of changes within the permitted facility that contravene the specific terms of this permit without applying for a permit revision, provided the changes do not exceed the emissions allowable under this permit, are not Title I modifications and a Permit to Construct is not required. This class of changes does not include changes that would violate applicable requirements; or changes to federally-enforceable permit terms or conditions that are monitoring, recordkeeping, reporting, or compliance certification requirements.

The permittee is required to send a notice to both the Department and Air Program (8P-AR), Office of Partnerships & Regulatory Assistance, US EPA Region 8, 1595 Wynkoop Street, Denver, CO 80202-1129, at least seven days in advance of any change made under this provision. The notice must describe the change, when it will occur and any change in emissions, and identify any permit terms or conditions made inapplicable as a result of the change. The permittee shall attach each notice to its copy of this permit. Any permit shield provided in this permit does not apply to changes made under this provision.

Applicable Requirement: NDAC 33.1-15-14-06.6.b(2)

- P. **Relationship to Other Requirements:** Nothing in this permit shall alter or affect the following:
- 1) The provisions of Section 303 of the Federal Clean Air Act (emergency orders), including the authority of the administrator of the United States Environmental Protection Agency under that section.
 - 2) 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.
 - 3) The ability of the United States Environmental Protection Agency to obtain information from a source pursuant to Section 114 of the Federal Clean Air Act.
 - 4) Nothing in this permit shall relieve the permittee of the requirement to obtain a Permit to Construct.

Applicable Requirements: NDAC 33.1-15-14-06.3 and NDAC 33.1-15-14-06.5.f(3)(a), (b) and (d)

- Q. **Severability Clause:** The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

Applicable Requirement: NDAC 33.1-15-14-06.5.a(5)

- R. **Circumvention:** The permittee shall not cause or permit the installation or use of any device of any means which conceals or dilutes an emission of air contaminants which would otherwise violate this permit.

Applicable Requirement: NDAC 33.1-15-01-08

9. **State Enforceable Only Conditions (not Federally enforceable):**

- A. **General Odor Restriction:** The permittee shall not discharge into the ambient air any objectionable odorous air contaminant which exceeds the limits established in NDAC 33.1-15-16.

Applicable Requirement: NDAC 33.1-15-16

- B. **Hydrogen Sulfide Restriction:** The permittee shall not discharge into the ambient air hydrogen sulfide (H₂S) in concentrations that would be objectionable on land owned or leased by the complainant or in areas normally accessed by the general public. For the purpose of complaint resolution, two samples with concentrations greater than 0.05 parts per million (50 parts per billion) sampled at least 15 minutes apart within a two-hour period and measured in accordance with Section 33.1-15-16-04 constitute a violation.

Applicable Requirement: NDAC 33.1-15-16-04