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Air Title V Operating Permit (AOP) - Renewal

version 2.7

(Submission #: HQK-B0SC-AKA37, version 1)

Details

Submission ID HQK-B0SC-AKA37

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-28416

Permit Version

1

Issue Date

05/02/2024

Expiration Date

09/02/2026

Permittee

Company Name

1804 Ltd. LLC

Address

10385 Westmoor Drive, Suite 225

Westminster, CO 80021

United States

Responsible Official

Prefix

NONE PROVIDED

First Name Last Name

Ed Aabak

Title

Managing Director

Phone Type Number Extension

Mobile 303-562-8422

Email

eaabak@flatironsfs.com

Address

10385 Westmoor Drive

Suite 225

Westminster, CO 80021

United States

Contact Person for Air Pollution Matters

Prefix

NONE PROVIDED

First Name Last Name

EJ Lachendro

Title

Air Quality & Compliance Consultant

Phone Type Number Extension

Mobile 303-578-2635

Email

elachendro@spiritenv.com

Address

1536 Wynkoop St

Suite 210

Denver, CO 80202

United States

Section B (Part 1) - Facility Information

Facility Name

1804 Ltd. LLC - Springbrook Gas Plant

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

Yes

Is this source subject to Title IV Acid Rain regulations?

No

Is this a portable source?

No

Facility Location

5621 - 131st Avenue NW

Williston, ND 58801

United States

County

Williams

Click the link below to use Google Maps to find the lat/long for a given address

[Google Maps](#)

Facility Location:

48.22970000000000,-103.51860000000000

5621 - 131st Avenue NW, Williston, ND

Please download the 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.

[PERMIT APPLICATION FOR TITLE V PERMIT TO OPERATE \(SFN52858\)](#)

Attach completed form here

2026_Springbrook SFN52824 - TV PTO Renewal App - signed.pdf - 02/27/2026 06:53 AM

Comment

NONE PROVIDED

Section B (Part 2) - Additional Location Information

Legal Description of Facility Site

Qtr	Qtr	Section	Township	Range
SE	SE	22	155N	100W

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
Gas Processing Plant	221210-Natural Gas Distribution	1311-Crude Petroleum and Natural Gas
Natural Gas Extraction	211130-Natural Gas Extraction	1321-Natural Gas Liquids

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 E - Control Equipment (1 of 1)

Emission Unit: -'CTRL_EQUIP_DESC'

Control Equipment ID

NONE PROVIDED

Emission units being controlled by this control unit

NONE PROVIDED

Control Equipment Description

NONE PROVIDED

Control equipment form

Download the 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.

[PERMIT APPLICATION FOR AIR POLLUTION CONTROL EQUIPMENT \(SFN8532\)](#)

Attach Control Equipment Form

NONE PROVIDED

Comment

NONE PROVIDED

Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)**Applicable Federal Air Programs**

Program Code
Title V Permits
40 CFR Part 63 Area Sources
National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
New Source Performance Standards

NSPS Air Program Subparts

Subpart
Subpart JJJJ - STATIONARY SPARK IGNITION INTERNAL COMBUSTION ENGINES
Subpart OOOO - CRUDE OIL/NATURAL GAS PRODUCTION/TRANSMISSION & DISTRIBUTION
Subpart OOOOa - CRUDE OIL/NATURAL GAS PRODUCTION/TRANSMISSION & DISTRIBUTION (post 9/18/15)
Subpart Dc - SMALL INDUS-COMMER-INSTITUTL STEAM GENERATING UNITS

NESHAPS Air Program Subparts

Subpart

Area Source MACT Air Program Subparts

Subpart
Subpart ZZZZ - STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES (RICE)

Applicable State Regulations

Regulation
33.1-15-16-02. Emissions of Odorous Substances Restricted.

Potential to Emit (PTE)

Pollutant	Tons Per Year Without Fugitives	Tons Per Year With Fugitives
NOx	150.82	150.82
CO	222.91	222.91
VOCs	151.12	173.07
SO2	0.38	0.38
PM	1.61	1.61
PM10	1.61	1.61
PM2.5	1.61	1.61
Total HAPs	14.89	15.05

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

2026_Springbrook Emissions.pdf - 02/17/2026 09:59 AM

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?

Compliance Assurance Monitoring (CAM) not applicable.

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

AOP28416v1_1 - redlined.pdf - 02/25/2026 02:42 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

DRAFT3_ACP-18305v1.0.docx - 02/25/2026 02:44 PM

2026.02_Springbrook Gas Plant Operating Permit Renewal - Cover Letter.pdf - 02/27/2026 07:16 AM

Comment

NONE PROVIDED

Additional Forms

NONE PROVIDED

Attachments

Date	Attachment Name	Context	User
2/27/2026 7:16 AM	2026.02_Springbrook Gas Plant Operating Permit Renewal - Cover Letter.pdf	Attachment	EJ Lachendro
2/27/2026 6:53 AM	2026_Springbrook SFN52824 - TV PTO Renewal App - signed.pdf	Attachment	EJ Lachendro
2/25/2026 2:44 PM	DRAFT3_ACP-18305v1.0.docx	Attachment	EJ Lachendro
2/25/2026 2:42 PM	AOP28416v1_1 - redlined.pdf	Attachment	EJ Lachendro
2/17/2026 9:59 AM	2026_Springbrook Emissions.pdf	Attachment	EJ Lachendro

Status History

	User	Processing Status
2/13/2026 7:47:00 AM	EJ Lachendro	Draft
2/27/2026 12:48:28 PM	jonathan hippe	Signing
2/27/2026 12:48:28 PM	jonathan hippe	Submitting
2/27/2026 12:49:53 PM	jonathan hippe	Submitted
2/27/2026 12:50:02 PM	jonathan hippe	In Process

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
By jonathan hippe on 02/27/2026 at 12:48 PM



Flatirons Field Services
10385 Westmoor Dr
Westminster, CO 80021
Phone: 720.291.3232

February 26, 2026

Submitted via CERIS-ND

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

**RE: Springbrook Air Title V Operating Permit (AOP) - Renewal
Springbrook Gas Plant AOP – 28416 v1.1
SE ¼ SE ¼ Section 22, T155N, R100W
Williams County, North Dakota**

Dear Kyla,

Flatirons Field Services (Flatirons), on behalf of 1804 Ltd., would like to request the renewal of the Air Pollution Control Title V Permit to Operate AOP-28416 v1.1 for the Springbrook Gas Plant (Springbrook). The expiration date of the current permit is 9/2/2026.

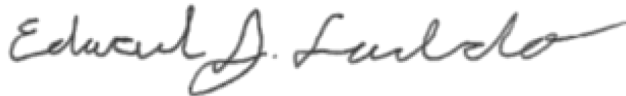
On 6/16/2025, Flatirons, on behalf of 1804 Ltd., submitted an application to add two (2) rotary screw Engines, 100C and 100D (Caterpillar G3516B LE) and remove one Caterpillar G3608 A4 (C-2710) at Springbrook. On 09/11/2025 Flatirons, on behalf of 1804 Ltd., submitted another application to update the engine catalyst information to reduce the total formaldehyde emissions below the major source thresholds established in §63.2 at Springbrook. Flatirons requested a modification to the existing Permit to Operate No. AOP-28416 v1.1. These permit modifications have been addressed by the North Dakota Department of Environmental Quality Division of Air Quality with the issuance of ACP-18305 v1.0. This permit is currently in the public comment period from February 21, 2026, through March 22, 2026. The Draft permit has been included with this Air Title V Operating Permit (AOP) – Renewal submittal.

It was recently discovered that the addition of a propane storage tank was not included with either of these permit modifications. In addition to the engine additions and emissions updates, Flatirons would like to request that a 120,000 gallon propane storage tank (V-2110) be added to the Operating Permit. The tank was installed to re-charge the refrigeration system at Springbrook. The tank is a pressurized tank and is vented to the facility flare (FL-8501). All emissions from the tank will be routed to the flare and accounted for by the currently installed flare meter. As noted in Section 7.1.1.2.6 – Pressure Tanks of AP-

42 Chapter 7, High-pressure storage tanks can be operated so that virtually no evaporative or working losses occur. Further in Section 7.1.3.7 – Pressure Tanks of AP-42 Chapter 7, High-pressure tanks are considered closed systems, with virtually no emission. Based on this information, it was determined that this tank should be considered an insignificant emission source.

If you should have any questions I can be reached at the contact information below. If you need any additional information, or have any specific questions related to this submittal, please contact EJ Lachendro with Spirit Environmental LLC at (303) 578-2635 or elachendro@spiritenv.com.

Sincerely,



EJ Lachendro

Consultant

RMR Air Quality & Compliance Services

MOBILE

303-578-2635

elachendro@spiritenv.com



1536 Wynkoop St. Suite 210 | Denver, CO 80202

MAIN 720-500-3710 | **FAX** 281-664-2491

spiritenv.com



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>1804 Ltd. LLC</u>	
Facility Name <u>Springbrook Gas Plant</u>	
Name of Person Completing Application <u>EJ Lachendro</u>	Phone <u>303-578-2635</u>
Title <u>Consultant</u>	Email <u>elachendro@spiritenv.com</u>
Current Operating Permit Number <u>AOP-28416 v1.1</u>	
Expiration Date of Current Operating Permit <u>09</u> / <u>02</u> / <u>2026</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>09/02/2021</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.

Yes
 No - Describe below which requirements are not being met:
 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 02/27/2026
Typed Name Ed Aabak	

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

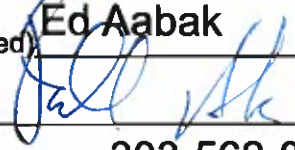
If yes, complete and submit appropriate sections of Title V Permit to Operate application forms.

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) Ed Aabak

(Signed)  Date 02 / 27 / 2026

Telephone Number 303-562-8422

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

AIR POLLUTION CONTROL PERMIT TO CONSTRUCT

Permittee: Name: 1804 Ltd. LLC Address: 10385 Westmoor Drive, Ste 225 Westminster, CO 80021	Permit Number: ACP-18305 v 1.0 Permit Description: Synthetic Minor PSD Title V existing Major to Area HAP
Source Name & Location: Springbrook Gas Plant 5621 – 131 st Avenue NW Williston, ND 58801 SE ¼, SE ¼, Sec. 22, T155N, R100W Williams County	Source Type: Compressor Station (Gathering)
Date of Application: June 16, 2025 and September 11, 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 or NDAC), and in reliance on statements and representations heretofore made by the permittee (i.e., owner) designated above, a Permit to Construct is hereby issued authorizing such permittee to construct and initially operate the source unit(s) at the location designated above. This Permit to Construct 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 below:

Date: _____

 James L. Semerad
 Director
 Division of Air Quality

1. Project and Facility Emissions Units:

This Permit to Construct allows the construction and initial operation of the herein-mentioned new or modified equipment at the source. The source may be operated under this Permit to Construct until a Permit to Operate is issued unless this permit is suspended or revoked. The source is subject to all applicable rules, regulations, and orders now or hereafter in effect of the North Dakota Department of Environmental Quality and to the conditions specified herein.

Table 1-1 lists the new emissions units associated with the Project.

Table 1-2 lists the emissions units that are being removed from the facility.

Table 1-3 lists all emissions units associated with the facility upon Project completion.

Table 1-1: Project Emissions Units (new to facility)

Emission Unit Description ^A	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
Caterpillar Model G3516 natural gas-fired engine (4SLB) rated at 1,340 bhp (manf. 2006, NSPS JJJJ; MACT ZZZZ)	100C	100C	Oxidation Catalyst & Air/Fuel Ratio Control (AFRC)
Caterpillar Model G3516 natural gas-fired engine (4SLB) rated at 1,340 bhp (manf. 2006, NSPS JJJJ; MACT ZZZZ)	100D	100D	Oxidation Catalyst & AFRC

^A All emission unit ratings are considered nominal ratings.

Table 1-2: Emissions Units Removed

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
Caterpillar Model G3608 A4 natural gas-fired engine (4SLB) rated at 2,500 bhp (manf. 6/2018, NSPS JJJJ, OOOOa; MACT ZZZZ)	C-2710	17	Oxidation Catalyst

Table 1-3: Facility Emissions Units upon Project Completion

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
Caterpillar Model G3516 natural gas-fired engine (4SLB) rated at 1,340 bhp (manf. 2006, NSPS JJJJ; MACT ZZZZ)	100C	100C	Oxidation Catalyst & Air/Fuel Ratio Control (AFRC)
Caterpillar Model G3516 natural gas-fired engine (4SLB) rated at 1,340 bhp (manf. 2006, NSPS JJJJ; MACT ZZZZ)	100D	100D	Oxidation Catalyst & AFRC

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
Caterpillar Model G3608 LE natural gas-fired engine (4SLB) rated at 2,370 bhp (manf. 2014, NSPS JJJJ, OOOO; MACT ZZZZ)	C-2711	C-2711	Oxidation Catalyst
Caterpillar Model G3608 LE natural gas-fired engine (4SLB) rated at 2,370 bhp (manf. 2014, NSPS JJJJ, OOOO; MACT ZZZZ)	C-2712	C-2712	Oxidation Catalyst
Caterpillar Model G3606 A4 natural gas-fired engine (4SLB) rated at approximately 1,875 bhp. (manf. 9/2018, NSPS JJJJ, OOOOa; MACT ZZZZ)	C-2713	C-2713	Oxidation Catalyst
Caterpillar Model G3512B LE natural gas-fired engine (4SLB) rated at 1,035 bhp (manf. 2013, NSPS JJJJ; MACT ZZZZ)	C-300A	C-300A	Oxidation Catalyst
Caterpillar Model G3512B LE natural gas-fired engine (4SLB) rated at 1,035 bhp (manf. 2013, NSPS JJJJ; MACT ZZZZ)	C-300B	C-300B	Oxidation Catalyst
Caterpillar Model G3512B LE natural gas-fired engine (4SLB) rated at 1,035 bhp (manf. 2014, NSPS JJJJ, OOOO; MACT ZZZZ)	C-4711	C-4711	Oxidation Catalyst
Caterpillar Model G3512B LE natural gas-fired engine (4SLB) rated at 1,035 bhp (manf. 2014, NSPS JJJJ, OOOO; MACT ZZZZ)	C-5701	C-5701	Oxidation Catalyst
Caterpillar Model G3512B LE natural gas-fired engine (4SLB) rated at 1,035 bhp (manf. 2014, NSPS JJJJ, OOOO; MACT ZZZZ)	C-5702	C-5702	Oxidation Catalyst
Caterpillar Model G3516B LE natural gas-fired engine (4SLB) rated at 1,818 bhp (manf. 2014, NSPS JJJJ; MACT ZZZZ)	GEN-1	GEN-1	Oxidation Catalyst
Caterpillar Model G3516B LE natural gas-fired engine (4SLB) rated at 1,818 bhp (manf. 2014, NSPS JJJJ; MACT ZZZZ)	GEN-2	GEN-2	Oxidation Catalyst
Natural gas-fired hot oil heater rated at approximately 10 x 10 ⁶ Btu/hr (NSPS Dc)	B-940	B-940	None

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
Natural gas-fired hot oil process heater rated at 2.5×10^6 Btu/hr	B-941 ^A	B-941	None
Natural gas-fired glycol reboiler heater rated at 1.5×10^6 Btu/hr	H-951 ^A	H-951	None
400-barrel oily water storage tank with taker truck loadout	TK-1 ^A	FUG-TK	Submerged Fill Pipe (SFP)
Emergency and process flare	FL-8501	FL-8501	None
NGL loadout	LOAD1 ^A	LOAD1	None
Condensate loadout	LOAD2 ^A	LOAD2	None
Produced water storage loadout	LOAD3 ^A	LOAD3	None
Four NGL pressurized storage 90,000 bullet tanks	V-4401 through V4404 ^{A, C}	Various	Returns vapors to the inlet
30,000-gallon field condensate bullet tank	V-4407 ^A	FL-8501	Emergency/ Process Flare
Pigging activities	PIG1 ^A	PIG1	None
Lift compressor blowdown	LIFTBD ^A	FL-8501	Emergency/ Process Flare
Compressor blowdown	COMPBD ^A	FL-8501	Emergency/ Process Flare
Ethylene glycol dehydration unit rated at 70 MMscfd	T-510/V-520 ^{A, B}	FL-8501	Emergency/ Process Flare
Fugitive emissions	FUG ^A	FUG	None
Fugitives (NSPS OOOO)	FUG-1 ^A	FUG-1	None
Fugitives (NSPS OOOOa)	FUG-2 ^A	FUG-2	None

^A Insignificant or fugitive emission sources (no specific emission limit).

^B T-510 (EP 13) is the still vent and V-520 (EP 14) is the flash gas vent.

^C Tank vapors are captured using the VRU and are recycled back into the system for reprocessing, therefore, no expected emissions will result from these units.

2. Applicable Standards, Restrictions and Miscellaneous Conditions:

A. New Source Performance Standards (NSPS):

The permittee shall comply with all applicable requirements of the following NSPS subparts, in addition to Subpart A, as referenced in Chapter 33.1-15-12 of the North Dakota Air Pollution Control Rules and 40 CFR 60.

- 1) 40 CFR 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (EUs 100C & 100D).

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

The permittee shall comply with all applicable requirements of the following MACT subparts, in addition to Subpart A, as referenced in Chapter 33.1-15-22 of the North Dakota Air Pollution Control Rules and 40 CFR 63.

- 1) 40 CFR 63, Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (EUs 100C & 100D). The North Dakota Department of Environmental Quality has not adopted the area source provisions of this subpart. Please send all required reports and documentation to U. S. EPA Region 8.

C. Fuel Restrictions:

Natural gas-fired engines (EUs 100C & 100D) are restricted to combusting only natural gas containing no more than 2 grains of sulfur per 100 standard cubic feet.

3. Emission Unit Limits:

Emission limits from the operation of the source unit(s) identified in Table 1-1 of this Permit to Construct (hereafter referred to as "permit") are as follows. Source units not listed are subject to the applicable emission limits specified in the North Dakota Air Pollution Control Rules.

Upon issuance of this permit, the emission limits set forth in all previous Air Permit to Construct Nos., including but not limited to: ACP-18160 v1.0 (PTC20011) and ACP-18160 v1.0 are rescinded. The emission limits are replaced with the following:

Table 3-1: Permit Emissions Limits

Emission Unit Description	EU	Pollutant / Parameter	Emission Limit
Facility wide	All	Formaldehyde	9.5 tons per year (tpy)
Caterpillar engine 1,340 bhp	100C	NO _x	0.50 g/hp-hr ^A
		CO	0.18 g/hp-hr ^A
		VOC	0.33 g/hp-hr ^A
		Opacity	20% ^B
Caterpillar engine 1,340 bhp	100D	NO _x	0.50 g/hp-hr ^A
		CO	0.18 g/hp-hr ^A
		VOC	0.33 g/hp-hr ^A
		Opacity	20% ^B

Emission Unit Description	EU	Pollutant / Parameter	Emission Limit
Caterpillar engine 2,370 bhp	C-2711	NO _x	0.50 g/hp-hr ^A
		CO	0.20 g/hp-hr ^A
		VOC	0.63 g/hp-hr ^A
		Opacity	20% ^B
Caterpillar engine 2,370 bhp	C-2712	NO _x	0.50 g/hp-hr ^A
		CO	0.20 g/hp-hr ^A
		VOC	0.63 g/hp-hr ^A
		Opacity	20% ^B
Caterpillar engine 1,875 bhp	C-2713	NO _x	0.50 g/hp-hr ^A
		CO	0.16 g/hp-hr ^A
		VOC	0.63 g/hp-hr ^A
		Opacity	20% ^B
Caterpillar engine 1,035 bhp	C-300A	NO _x	0.50 g/hp-hr ^A
		CO	0.16 g/hp-hr ^A
		VOC	0.46 g/hp-hr ^A
		Opacity	20% ^B
Caterpillar engine 1,035 bhp	C-300B	NO _x	0.50 g/hp-hr ^A
		CO	0.16 g/hp-hr ^A
		VOC	0.46 g/hp-hr ^A
		Opacity	20% ^B
Caterpillar engine 1,035 bhp	C-4711	NO _x	0.50 g/hp-hr ^A
		CO	0.21 g/hp-hr ^A
		VOC	0.46 g/hp-hr ^A
		Opacity	20% ^B

Emission Unit Description	EU	Pollutant / Parameter	Emission Limit
Caterpillar engine 1,035 bhp	C-5701	NO _x	0.50 g/hp-hr ^A
		CO	0.21 g/hp-hr ^A
		VOC	0.46 g/hp-hr ^A
		Opacity	20% ^B
Caterpillar engine 1,035 bhp	C-5702	NO _x	0.50 g/hp-hr ^A
		CO	0.21 g/hp-hr ^A
		VOC	0.46 g/hp-hr ^A
		Opacity	20% ^B
Caterpillar engine 1,818 bhp	GEN-1	NO _x	1.00 g/hp-hr ^A
		CO	0.33 g/hp-hr ^A
		VOC	0.39 g/hp-hr ^A
		Opacity	20% ^B
Caterpillar engine 1,818 bhp	GEN-2	NO _x	1.00 g/hp-hr ^A
		CO	0.33 g/hp-hr ^A
		VOC	0.39 g/hp-hr ^A
		Opacity	20% ^B
Heater 10 x 10 ⁶ Btu/hr	B-940	Opacity	20% ^B
Heater 2.5 x 10 ⁶ Btu/hr	B-941	Opacity	20% ^B
Reboiler heater 1.5 x 10 ⁶ Btu/hr	H-951	Opacity	20% ^B
Flare	FL-8501	Opacity	20% ^C
Fugitives – OOOO & OOOOa	FUG-1 & FUG-2	VOC	33.1-15-12-02, Subparts OOOO & OOOOa

^A Less restrictive 40 CFR 60 Subpart JJJJ limits also apply as follows: NO_x of 1.0 g/hp-hr or 82 ppmvd @ 15% O₂; CO of 2.0 g/hp-hr or 270 ppmvd @ 15% O₂; VOC of 0.7 g/hp-hr or 60 ppmvd @ 15% O₂

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

^C 60% opacity is permissible for not more than one six-minute period per hour.

A. Formaldehyde Emission Limit:

Formaldehyde emissions are limited to a total of 9.5 tons per rolling 12-month period. The Department may require the permittee to calculate for the previous month and for the 12-month rolling period the formaldehyde emissions from the facility by the 15th day of each month. In the event that the formaldehyde exceeds 9.5 tons in a 12-month period, the permittee shall notify the Department by the 25th day of the month in which the calculation was made.

4. Emission Testing Requirements:

A. Initial testing:

All initial testing will require a minimum of three runs, one hour each, unless otherwise specified in a federal subpart.

Table 4-1: Initial Emissions Testing for Project

Emission Unit Description	EU	EP	Contaminant	Method
Facility wide	All engines	All engines	Formaldehyde	EPA Method 323
Caterpillar engine	100C	100C	NO _x CO VOC	NSPS JJJJ
Caterpillar engine	100D	100D	NO _x CO VOC	NSPS JJJJ

A signed copy of the test results shall be furnished to the Department within 60 days of the test date. The basis for this condition is NDAC 33.1-15-01-12 which is hereby incorporated into this permit by reference. To facilitate preparing for and conducting such tests, and to facilitate reporting the test results to the Department, the permittee shall follow the procedures and formats in the Department’s Emission Testing Guideline.¹

1) Test:

The permittee shall conduct emissions tests at the emission units listed in 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. Emissions testing shall be conducted for the

¹ See February 7, 2020, North Dakota Department of Environmental Quality Division of Air Quality Emissions Testing Guidelines. Available at: https://www.deq.nd.gov/publications/AQ/policy/PC/Emission_Testing_Guide.pdf

pollutant(s) listed above in accordance with EPA Reference Methods listed in 40 CFR 60, Appendix A. Test methods other than those listed above may be used upon approval by the Department.

- a) The engines (EUs 100C & 100D) should be tested within 180 days after initial startup.
- b) All formaldehyde emitting emission units must be tested within one year of permit issuance to show emission rates and compliance with the 9.5 tpy formaldehyde limit.

2) Notification:

The permittee shall notify the Department using the form in the Emission Testing Guideline, or its equivalent, at least 30 calendar days in advance of any tests of emissions of air contaminants required by the Department. If the permittee is unable to conduct the performance test on the scheduled date, the permittee shall notify the Department at least five days prior to the scheduled test date and coordinate a new test date with the Department.

3) Sampling Ports/Access:

Sampling ports shall be provided downstream of all emission control devices and in a flue, conduit, duct, stack or chimney arranged to conduct emissions to the ambient air. The ports shall be located to allow for reliable sampling and shall be adequate for test methods applicable to the facility. Safe sampling platforms and safe access to the platforms shall be provided. Plans and specifications showing the size and location of the ports, platform and utilities shall be submitted to the Department for review and approval.

4) Other:

- a) The Department may require the permittee to have tests conducted to determine the emission of air contaminants from any source, whenever the Department has reason to believe that an emission of a contaminant not addressed by the permit applicant is occurring, or the emission of a contaminant in excess of that allowed by this permit is occurring. The Department may specify testing methods to be used in accordance with good professional practice. The Department may observe the testing. All tests shall be conducted by reputable, qualified personnel. A signed copy of the test results shall be furnished to the Department within 60 days of the test date.

All tests shall be made available, and the results calculated in accordance with test procedures approved by the Department. All tests shall be made under the direction of persons qualified by training or experience in the field of air pollution control as approved by the Department.

- b) The Department may conduct tests of emissions of air contaminants from any source. Upon request of the Department, the permittee shall provide necessary holes in 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.

B. Sampling and Testing:

The Department may require the permittee to conduct tests to determine the emission rate of air contaminants from the source. The Department may observe the testing and may specify testing methods to be used. A signed copy of the test results shall be furnished to the Department within 60 days of the test date. The basis for this condition is NDAC 33.1-15-01-12 which is hereby incorporated into this permit by reference. To facilitate preparing for and conducting such tests, and to facilitate reporting the test results to the Department, the permittee shall follow the procedures and formats in the Department's Emission Testing Guideline.

5. General Conditions (Equipment):

A. Best Management Practices:

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.

B. Operation of Air Pollution Control Equipment:

The permittee shall maintain and operate all air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.

C. Stack Heights:

Emissions shall be vented through stacks that meet the following height requirements. Stack heights may be no less than those listed in the table below without prior approval from the Department.

Emission Unit Description	EU	EP	Minimum Stack Height (Feet)
Caterpillar engine	100C	100C	20.8
Caterpillar engine	100D	100D	20.8

D. Like-Kind Engine Replacement:

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

- 1) The Department must be notified within 10 days after change-out of the unit.
- 2) The replacement unit shall operate in the same manner, provide no increase in throughput and have equal or less emissions than the unit it is replacing.
- 3) The date of manufacture of the replacement unit must be included in the notification. The facility must comply with any applicable federal standards (e.g. NSPS, MACT) triggered by the replacement.
- 4) The replacement unit is subject to the same state emission limits as the existing unit in addition to any NSPS or MACT emission limit that is applicable. Testing shall be conducted to confirm compliance with the emission limits within 180 days after start-up of the unit.

E. Organic Compound Emissions:

The permittee shall comply with all applicable requirements of NDAC 33.1-15-07 – Control of Organic Compounds Emissions.

F. 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.

G. Fugitive Emissions:

The release of fugitive emissions shall comply with the applicable requirements in NDAC 33.1-15-17.

6. General Conditions (Procedural):

A. Construction:

Construction of the above-described facility shall be in accordance with information provided in the permit application as well as any plans, specifications and supporting data submitted to the Department. The Department shall be notified 10 days in advance of any significant deviations from the specifications furnished. The issuance of this Permit to Construct may be suspended or revoked if the Department determines that a significant deviation from the plans and specifications furnished has been or is to be made.

Any violation of a condition issued as part of this permit to construct as well as any construction which proceeds in variance with any information submitted in the application, is regarded as a violation of construction authority and is subject to enforcement action.

B. Startup Notice:

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

C. Permit Invalidation:

This permit shall become invalid if construction is not commenced within 18 months after issuance of such permit, if construction is discontinued for a period of 18 months or more; or if construction is not completed within a reasonable time.

D. Source Operations:

Operations at the installation shall be in accordance with statements, representations, procedures and supporting data contained in the initial application, and any supplemental information or application(s) submitted thereafter. Any operations not listed in this permit are subject to all applicable North Dakota Air Pollution Control Rules.

E. Alterations, Modifications, or Changes:

Any alteration, repairing, expansion, or change in the method of 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, must be reviewed and approved by the Department prior to the start of such alteration, repairing, expansion or change in the method of operation.

F. Title V Permit to Operate:

Within one year after startup of the units covered by this permit, the permittee shall submit a permit application for a Title V Permit to Operate for the facility.

G. Recordkeeping:

The permittee shall maintain any compliance monitoring records required by this permit or applicable requirements. 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 sample, measurement, report or application. Support information may include all calibration and maintenance records and all original strip-chart recordings/computer printouts for continuous monitoring instrumentation, and copies of all reports required by the permit.

H. Annual Emission Inventory/Annual Production Reports:

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

I. Malfunction Notification:

The permittee shall notify the Department of any malfunction which can be expected to last longer than twenty-four hours and can cause the emission of air contaminants in violation of applicable rules and regulations.

J. Nuisance or Danger:

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

K. Transfer of Permit to Construct:

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

L. 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 at which the source listed in Condition 1 of this permit is located at any time for the purpose of ascertaining the state of compliance with 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.

M. Other Regulations:

The permittee of the source unit(s) described in Condition 1 of this permit shall comply with all State and Federal environmental laws and rules. In addition, the permittee shall comply with all local burning, fire, zoning, and other applicable ordinances, codes, rules and regulations.

N. Permit Issuance:

This permit is issued in reliance upon the accuracy and completeness of the information set forth in the application. Notwithstanding the tentative nature of this information, the conditions of this permit herein become, upon the effective date of this permit, enforceable by the Department pursuant to any remedies it now has, or may in the future have, under the North Dakota Air Pollution Control Law, NDCC Chapter 23.1-06.

7. State Enforceable Only Conditions (not Federally enforceable)

A. Odor Restrictions:

The permittee shall not discharge into the ambient air any objectionable odorous air contaminant which is in excess of the limits established in NDAC 33.1-15-16.

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May 3, 2024

Mr. Eric Hammond
Senior Project Engineer
Flatirons Field Services, LLC
10385 Westmoor Drive, Suite 225
Westminster, CO 80021

Re: Air Quality
Permit to Operate Revision
Title V Source

Dear Mr. Hammond:

On October 9, 2023, the Department received a Permit to Operate revision application for the Springbrook Gas Plant located in Williams County, North Dakota.

Based on our review of the permit application and other relevant documents, the Department hereby issues a Permit to Operate for the source. The Department's issuance of the permit is contingent upon compliance with the conditions outlined in the permit. Please review each condition carefully and note the restrictions placed on the source units. For your information, no comments were received during the 30-day public comment and 45-day EPA review periods.

Note that the above-referenced permit addresses only air quality requirements applicable to your facility. Other divisions (Water Quality, Waste Management and Municipal Facilities) within the Department of Environmental Quality may have additional requirements. Contact information for the various divisions is listed at the bottom of this letter.

If you have any questions, please contact me at (701)328-5218 or email kkschneider@nd.gov.

Sincerely,

Kyla K. Schneider
Environmental Scientist
Division of Air Quality

KKS:er

Enc:

xc/enc: EPA Region 8, Air Permitting (email- r8airpermitting@epa.gov)

4201 Normandy Street

Bismarck ND 58503-1324 | Fax 701-328-5200 | deq.nd.gov

Director's Office
.701-328-5150

Division of
Air Quality
701-328-5188

Division of
Municipal Facilities
701-328-5211

Division of
Waste Management
701-328-5166

Division of
Water Quality
701-328-5210

Division of Chemistry
701-328-6140
2635 East Main Ave
Bismarck ND 58501

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**AIR POLLUTION CONTROL
TITLE V PERMIT TO OPERATE**

Permittee: Name: 1804 Ltd. LLC Address: 10385 Westmoor Drive, Ste 225 Westminster, CO 80021	Permit Number: AOP-28416 vl.1 Source Name: Springbrook Gas Plant
Source Location: 5621 - 1315 ¹ Avenue NW Williston, ND 58801 SE ¼, SE ¼, Sec. 22, T1 55N, R1 00W Williams County	Source Type: Natural Gas Processing and Compressor Station
Expiration Date: September 2, 2026	

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.

Initial Issuance: 9/2/21

Revision (Sig. Mod.): 5/2/24

S
Director
Division of Air Quality

Springbrook Gas Plant
Title V Permit to Operate
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1. **Emission Unit Identification:**

A. The emission units regulated by this permit are as follows:

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
Caterpillar Model G3608 LE natural gas-fired engine (4SLB) rated at 2,370 bhp (manf. 2014, NSPS JJJ, 0000)	C-2711	1 C-2711	Oxidation Catalyst
Caterpillar Model G3608 LE natural gas-fired engine (4SLB) rated at 2,370 bhp (manf. 2014, NSPS JJJ, 0000)	C-2712	2 C-2712	Oxidation Catalyst
Caterpillar Model G3512B LE natural gas-fired engine (4SLB) rated at 1,035 bhp (manf. 2013, NSPS JJJ)	C-300A	3 C-300A	Oxidation Catalyst
Caterpillar Model G3512B LE natural gas-fired engine (4SLB) rated at 1,035 bhp (manf. 2013, NSPS JJJ)	C-300B	4 C-300B	Oxidation Catalyst
Caterpillar Model G3512B LE natural gas-fired engine (4SLB) rated at 1,035 bhp (manf. 2014, NSPS JJJ, 0000)	C-5701	5 C-5701	Oxidation Catalyst
Caterpillar Model G3512B LE natural gas-fired engine (4SLB) rated at 1,035 bhp (manf. 2014, NSPS JJJ, 0000)	C-5702	6 C-5702	Oxidation Catalyst
Caterpillar Model G3512B LE natural gas-fired engine (4SLB) rated at 1,035 bhp (manf. 2014, NSPS JJJ, 0000)	C-4711	7 C-4711	Oxidation Catalyst
Caterpillar Model G3516B LE natural gas-fired engine (4SLB) rated at 1,818 bhp (manf. 2014, NSPS JJJ)	GEN-1	8 GEN-1	Oxidation Catalyst
Caterpillar Model G3516B LE natural gas-fired engine (4SLB) rated at 1,818 bhp (manf. 2014, NSPS JJJ)	GEN-2	9 GEN-2	Oxidation Catalyst
Natural gas-fired hot oil heater rated at approximately 10 x 10 ⁶ Btu/hr (NSPS De)	B-940	10 B-940	None
Emergency and process flare	FL-8501	11 FL-8501	None
NGL loadout	LOADIA	12 LOAD1	None
Ethylene glycol dehydration unit rated at 70 MMscfd (NESHAP/MACT HH)	T-510A,B/ V-520 A,B	13 FL-8501	Emergency/ Process Flare
Condensate loadout	LOAD2A	14 LOAD2	None
Caterpillar Model G3608 A4 natural gas-fired engine (4SLB) rated at 2,500 bhp (manf. 6/2018, NSPS JJJ, 0000a)	C-2710	17	Oxidation Catalyst

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
Caterpillar Model G3606 A4 natural gas-fired engine (4SLB) rated at approximately 1,875 bhp. (manf. 9/2018, NSPS JJJJ, OOOOa)	C-2713	19 C-2713	Oxidation Catalyst
Natural gas-fired hot oil process heater rated at 2.5 x 10 ⁶ Btu/hr	B-941 A	20 B-941	None
Produced water storage loadout	LOAD3A	21 LOAD3	None
Natural gas-fired glycol reboiler heater rated at 1.5 x 10 ⁶ Btu/hr	H-951 A	22 H-951	None
Pigging activities	PIGI A	PIGI	None
Four NGL pressurized storage 90,000 bullet tanks	V-4401 A, c through V4404 A,C	Various	Returns vapors to the inlet
30,000-gallon field condensate bullet tank	V-4407 A	44 FL-8501	Emergency/ Process Flare
400-barrrel oily water storage tank with taker truck loadout	TK-1 A	FUG-TK	Submerged Fill Pipe (SFP)
Lift compressor blowdown	LIFTBD A	44 FL-8501	Emergency/ Process Flare
Compressor blowdown	COMPBDA	44 FL-8501	Emergency/ Process Flare
Fugitive emissions	FUGA	FUG	None
Fugitives - NSPS 0000	FUG-1 A	FUG-1	None
Fugitives - NSPS OOOOa	FUG-2A	FUG-2	None
Caterpillar Model G3516 natural gas-fired engine (4SLB) rated at 1,340 bhp (manf. 2006, NSPS JJJJ; MACT ZZZZ)	100C	100C	Oxidation Catalyst & Air/Fuel Ratio Control (AFRC)
Caterpillar Model G3516 natural gas-fired engine (4SLB) rated at 1,340 bhp (manf. 2006, NSPS JJJJ; MACT ZZZZ)	100D	100D	Oxidation Catalyst & AFRC
12,000 gallon propane tank	V-2110A	FL-8501	Emergency/ Process Flare

A Insignificant or fugitive emission sources (no specific emission limit).

B T-510 (EP 13) is the still vent and V-520 (EP 14) is the flash gas vent.

C Tank vapors are captured using the VRU and are recycled back into the system for reprocessing, therefore, no expected emissions will result from these units.

2. Applicable Standards, Restrictions and Miscellaneous Conditions:

- A. **Fuel Restriction:** The engines (EU ~~C-2710~~, C-2711, C-2712, C-2713, C-300A, C-300B, C-4711, C-5701, C-5702, GEN-1 and GEN-2) and the heaters (EU B-940, B-941 and H-951) are restricted to combusting only natural gas containing no more than 2 grains of sulfur per 100 standard cubic feet or commercial propane as defined by the Gas Processors Association.

Applicable Requirements: Air Construction Permit (ACP)-17964 v1.0, ACP-18160 v1.0 and NDAC 33.1-15-14-06.5.b(1) **ACP-18305 v1.0**

- B. **Stack Heights:** The stack height of each engine shall be at least 1.5 times the nearby building

height. A nearby building is any building located a distance of less than five times the building height from the stack. In addition, the minimum stack height for each emission unit shall be as shown in the following table.

Emission Unit Description	EU	Stack Height (feet)
Caterpillar engine	100C	100C
Caterpillar engine	100D	100D
Caterpillar engine	C-2710	24
Caterpillar engine	C-2711	46.5
Caterpillar engine	C-2712	46.5
Caterpillar engine	C-2713	28.5
Caterpillar engine	C-300A	46.5
Caterpillar engine	C-300B	46.5
Caterpillar engine	C-4711	46.5
Caterpillar engine	C-5701	46.5
Caterpillar engine	C-5702	46.5
Caterpillar engine	GEN-1	46.5
Caterpillar engine	GEN-2	46.5
Hot oil heater	B-940	14
Hot oil heater	B-941	15
Glycol heater	H-951	12
Emergency/process flare	FL-8501	120

Applicable Requirement: ACP-17964 v1.0, ACP-18160 v1.0, and ACP-18305 v1.0

C. **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 Dc - Standards of performance for small industrial-commercial-institutional steam generating units (EU B-940).
- 2) Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (EU ~~C-2710~~, 100C, 100D, C-2711, C-2712, C-2713, C-300A, C-300B, C-4711, C-5701, C-5702, GEN-1 and GEN-2).
- 3) Subpart 0000 - Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced after August 23, 2011, and on or before September 18, 2015 (centrifugal/reciprocal compressors for EU C-2711, C-2712, C-4711, C-5701 and C-5702 and fugitive emissions).
- 4) Subpart OOOOa - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015 (centrifugal/reciprocal compressors for ~~EU C-2710~~ and EU C-2713 and fugitive emissions).

Applicable Requirements: NDAC 33.1-15-12, Subparts A, Dc, JJJJ, 0000 and OOOOa

D. **National Emission Standards for Hazardous Air Pollutants (NESHAP)/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 HH - National Emissions Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities (EU T-510/V-520).
- 2) Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (~~EU-C-2710~~, 100C, 100D C-2711, C-2712, C-2713, C-300A, C-300B, C-4711, C-5701, C-5702, GEN-1, GEN-2).

Applicable Requirements: NDAC 33.1-15-22-03, Subparts A, HH and ZZZZ

E. **Flaring Restrictions:**

- 1) When it is necessary to operate the flare (EU FL-8501) 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.
- 2) The flare (EU FL-8501) 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.
- 3) The presence of a flame shall be monitored using a thermocouple or any other equivalent device approved by the Department.

Applicable Requirements: ACP-17964 v1.0 and NDAC 33.1-15-14-06.5.b(1)

F. **Like-Kind Engine Replacement:** This permit allows the permittee to replace the existing engines 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. Testing shall be conducted to confirm compliance with the emission limits within 180 days after start-up of the new engine.

Applicable Requirements: ACP-17964 v1.0, ACP-18160 v1.0, **ACP-18305 v1.0**, and NDAC 33.1-15-14-06.5.b(1)

3. Emission Unit Limits:

Emission Unit Description	EU	EP	Pollutant/Parameter	Emission Limit	NDAC Applicable Requirement
Caterpillar engine	100C	100C	NOx	1.48 lb/hr & 1.0 g/hp-hr or 82 ppmvd _A	ACP-18305 v1.0 & 33.1-15-12-02, Subpart JJJJ
			CO	0.53 lb/hr & 2.0 g/hp-hr or 270 ppmvd _A	ACP-18305 v1.0 & 33.1-15-12-02, Subpart JJJJ
			VOC	0.97 lb/hr & 0.7 g/hp-hr or 60 ppmvd _A	ACP-18305 v1.0 & 33.1-15-12-02, Subpart JJJJ
			Opacity	20% ⁸	ACP-18305 v1.0 & 33.1-15-03-02
Caterpillar engine	100D	100D	NOx	1.48 lb/hr & 1.0 g/hp-hr or 82 ppmvd _A	ACP-18305 v1.0 & 33.1-15-12-02, Subpart JJJJ
			CO	0.53 lb/hr & 2.0 g/hp-hr or 270 ppmvd _A	ACP-18305 v1.0 & 33.1-15-12-02, Subpart JJJJ
			VOC	0.97 lb/hr & 0.7 g/hp-hr or 60 ppmvd _A	ACP-18305 v1.0 & 33.1-15-12-02, Subpart JJJJ
			Opacity	20% ⁸	ACP-18305 v1.0 & 33.1-15-03-02
Caterpillar engine	C-2711	± C-2711	NOx	2.61 lb/hr & 1.0 g/hp-hr or 82 ppmvd _A	ACP-18160 v1.0 & 33.1-15-12-02, Subpart JJJJ
			CO	1.04 lb/hr & 2.0 g/hp-hr or 270 ppmvd _A	ACP-18305 v1.0 & 33.1-15-12-02, Subpart JJJJ
			VOC	3.29 lb/hr & 0.7 g/hp-hr or 60 ppmvd _A	ACP-18160 v1.0 & 33.1-15-12-02, Subpart JJJJ
			Opacity	20% ⁸	ACP-18160 v1.0 & 33.1-15-03-02
Caterpillar engine	C-2712	± C-2712	NOx	2.61 lb/hr & 1.0 g/hp-hr or 82 ppmvd _A	ACP-18160 v1.0 & 33.1-15-12-02, Subpart JJJJ

			CO	1.04 lb/hr & 2.0 g/hp-hr or 270 ppmvd _A	ACP-18305 v1.0 & 33.1-15-12-02, Subpart JJJJ
			VOC	3.29 lb/hr & 0.7 g/hp-hr or 60 ppmvd _A	ACP-18160 v1.0 & 33.1-15-12-02, Subpart JJJJ
			Opacity	20% ⁸	ACP-18160 v1.0 & 33.1-15-03-02
Caterpillar engine	C-300A	3 C-300A	NOx	1.14 lb/hr & 1.0 g/hp-hr or 82 ppmvd _A	ACP-18160 v1.0 & 33.1-15-12-02, Subpart JJJJ
			CO	0.37 lb/hr & 2.0 g/hp-hr or 270 ppmvd _A	ACP-18305 v1.0 & 33.1-15-12-02, Subpart JJJJ
			VOC	1.05 lb/hr & 0.7 g/hp-hr or 60 ppmvd _A	ACP-18160 v1.0 & 33.1-15-12-02, Subpart JJJJ
			Opacity	20% ⁸	ACP-18160 v1.0 & 33.1-15-03-02

Emission Unit Description	EU	EP	Pollutant/Parameter	Emission Limit	NDAC Applicable Requirement
Caterpillar engine	C-300B	4 C-300B	NOx	1.14 lb/hr & 1.0 g/hp-hr or 82 ppmvd _A	ACP-18160 v1.0 & 33.1-15-12-02, Subpart JJJJ
			CO	0.37 lb/hr & 2.0 g/hp-hr or 270 ppmvd _A	ACP-18305 v1.0 & 33.1-15-12-02, Subpart JJJJ
			VOC	1.05 lb/hr & 0.7 g/hp-hr or 60 ppmvd _A	ACP-18160 v1.0 & 33.1-15-12-02, Subpart JJJJ
			Opacity	20% ⁸	ACP-18160 v1.0 & 33.1-15-03-02
Caterpillar engine	C-5701	5 C-5701	NOx	1.14 lb/hr & 1.0 g/hp-hr or 82 ppmvd _A	ACP-18160 v1.0 & 33.1-15-12-02, Subpart JJJJ
			CO	0.48 lb/hr & 2.0 g/hp-hr or 270 ppmvd _A	ACP-18305 v1.0 & 33.1-15-12-02, Subpart JJJJ
			VOC	1.05 lb/hr & 0.7 g/hp-hr or 60 ppmvd _A	ACP-18160 v1.0 & 33.1-15-12-02, Subpart JJJJ
			Opacity	20% ⁸	ACP-18160 v1.0 & 33.1-15-03-02
Caterpillar engine	C-5702	6 C-5702	NOx	1.14 lb/hr & 1.0 g/hp-hr or 82 ppmvd _A	ACP-18160 v1.0 & 33.1-15-12-02, Subpart JJJJ
			CO	0.48 lb/hr & 2.0 g/hp-hr or 270 ppmvd _A	ACP-18305 v1.0 & 33.1-15-12-02, Subpart JJJJ
			VOC	1.05 lb/hr & 0.7 g/hp-hr or 60 ppmvd _A	ACP-18160 v1.0 & 33.1-15-12-02, Subpart JJJJ
			Opacity	20% ⁸	ACP-18160 v1.0 & 33.1-15-03-02

Emission Unit Description	EU	EP	Pollutant/Parameter	Emission Limit	NDAC Applicable Requirement
Caterpillar engine	C-4711	7 C-4711	NOx	1.14 lb/hr & 1.0 g/hp-hr or 82 ppmvd _A	ACP-18160 vl.0 & 33.1-15-12-02, Subpart JJJJ
			CO	0.48 lb/hr & 2.0 g/hp-hr or 270 ppmvd _A	ACP-18305 vl.0 & 33.1-15-12-02, Subpart JJJJ
			VOC	1.05 lb/hr & 0.7 g/hp-hr or 60 ppmvd _A	ACP-18160 vl.0 & 33.1-15-12-02, Subpart JJJJ
			Opacity	20% ⁸	ACP-18160 vl.0 & 33.1-15-03-02
Caterpillar engine	GEN-1	8 GEN-1	NOx	4.0 lb/hr & 1.0 g/hp-hr or 82 ppmvd _A	ACP-18160 vl.0 & 33.1-15-12-02, Subpart JJJJ
			CO	1.32 lb/hr & 2.0 g/hp-hr or 270 ppmvd _A	ACP-18305 vl.0 & 33.1-15-12-02, Subpart JJJJ
			VOC	1.56 lb/hr & 0.7 g/hp-hr or 60 ppmvd _A	ACP-18305 vl.0 & 33.1-15-12-02, Subpart JJJJ
			Opacity	20% ⁸	ACP-18160 vl.0 & 33.1-15-03-02
Caterpillar engine	GEN-2	9 GEN-2	NOx	4.0 lb/hr & 1.0 g/hp-hr or 82 ppmvd _A	ACP-18160 vl.0 & 33.1-15-12-02, Subpart JJJJ
			CO	1.32 lb/hr & 2.0 g/hp-hr or 270 ppmvd _A	ACP-18305 vl.0 & 33.1-15-12-02, Subpart JJJJ
			VOC	1.56 lb/hr & 0.7 g/hp-hr or 60 ppmvd _A	ACP-18305 vl.0 & 33.1-15-12-02, Subpart JJJJ
			Opacity	20% ⁸	ACP-18160 vl.0 & 33.1-15-03-02
Natural gas-fired hot oil heater	B-940	10 B-940	Opacity	20% ⁸	33.1-15-12, Subpart De & 33.1-15-03-02

Emission Unit Description	EU	EP	Pollutant/Parameter	Emission Limit	NDAC Applicable Requirement
Emergency and process flare	FL-8501	11 FL-8501	Opacity	20% ^c	ACP-17964 v1.0 & 33.1-15-03-03.1
Dehydration unit	T-510/ V-520	11 FL-8501	Opacity	20% B,D	ACP-17964 v1.0 & 33.1-15-03-02
Caterpillar engine	C-2710	17	NOx	2.75 lb/hr & 1.0 g/hp-hr or 82 ppmvd^A	ACP-18160 v1.0 & 33.1-15-12-02, Subpart JJJ
			CO	1.38 lb/hr & 2.0 g/hp-hr or 270 ppmvd^A	ACP-18160 v1.0 & 33.1-15-12-02, Subpart JJJ
			VOC	3.29 lb/hr & 0.7 g/hp-hr or 60 ppmvd^A	ACP-18160 v1.0 & 33.1-15-12-02, Subpart JJJ
			Opacity	20%⁸	ACP-18160 v1.0 & 33.1-15-03-02
Caterpillar engine	C-2713	19 C-2713	NOx	2.07 lb/hr & 1.0 g/hp-hr or 82 ppmvd ^A	ACP-18160 v1.0 & 33.1-15-12-02, Subpart JJJ
			CO	0.66 lb/hr & 2.0 g/hp-hr or 270 ppmvd^A	ACP-18305 v1.0 & 33.1-15-12-02, Subpart JJJ
			VOC	2.60 lb/hr & 0.7 g/hp-hr or 60 ppmvd ^A	ACP-18160 v1.0 & 33.1-15-12-02, Subpart JJJ
			Opacity	20%⁸	ACP-18160 v1.0 & 33.1-15-03-02
Natural gas-fired hot oil heater	B-941	20 B-941	Opacity	20% B	33.1-15-03-02
Natural gas-fired glycol reboiler heater	H-951	22 H-951	Opacity	20% B	ACP-18160 v1.0 & 33.1-15-03-02
Fugitives - 0000 & 0000a	FUG-1 & FUG-2	FUG-1 & FUG-2	VOC	See Conditions 2.C.3 & 2.C.4	33.1-15-12-02, Subparts 0000&0000a

^A The emission limits in g/hp-hr and ppmvd (at 15% O₂) are from 40 CFR 60, Subpart JJJJ. The engines must also comply with the applicable lb/hr emission limits and any applicable emission limits established by 40 CFR 63, Subpart ZZZZ.

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

^C 60% opacity is permissible for not more than one six-minute period per hour.

- D When operating the dehydration unit, EU T:-510/ V-520, the permittee shall comply with the control device and work practice requirements as indicated in 40 CFR 63.11(b) for emissions controlled by EU FL-8501. Flares shall be designed for and operated with no visible emissions, except for periods not to exceed a total of five minutes during any two consecutive hours.

4. Monitoring Requirements and Conditions:

A. Requirements:

Emission Unit Description	EP	Pollutant/ Parameter	Monitoring Requirement (Method)	Condition Number	NDAC Applicable Requirement
Caterpillar engine	100C	NOx/CO/VOC Opacity	Stack Test & Recordkeeping Recordkeeping	4.B.1 & 4.B.2 4.B.3	33.1-15-12-02, Subpart JJJJ, 33.1-15-22-03, Subpart ZZZZ 33.1-15-14-06.5.a(3)(a)
Caterpillar engine	100D	NOx/CO/VOC Opacity	Stack Test & Recordkeeping Recordkeeping	4.B.1 & 4.B.2 4.B.3	33.1-15-12-02, Subpart JJJJ, 33.1-15-22-03, Subpart ZZZZ 33.1-15-14-06.5.a(3)(a)
Caterpillar engine	4 C-2711	NOx/CO/VOC Opacity	Stack Test & Recordkeeping Recordkeeping	4.B.1 & 4.B.2 4.B.3	33.1-15-12-02, Subpart JJJJ, 33.1-15-22-03, Subpart ZZZZ & 33.1-15-12-02, Subpart 0000 33.1-15-14-06.5.a(3)(a)
Caterpillar engine	2 C-2712	NOx/CO/VOC Opacity	Stack Test & Recordkeeping Recordkeeping	4.B.1 & 4.B.2 4.B.3	33.1-15-12-02, Subpart JJJJ, 33.1-15-22-03, Subpart ZZZZ & 33.1-15-12-02, Subpart 0000 33.1-15-14-06.5.a(3)(a)
Caterpillar engine	3 C-300A	NOx/CO/VOC Opacity	Stack Test & Recordkeeping Recordkeeping	4.B.1 & 4.B.2 4.B.3	33.1-15-12-02, Subpart JJJJ, 33.1-15-22-03, Subpart ZZZZ & 33.1-15-12-02, Subpart 0000 33.1-15-14-06.5.a(3)(a)
Caterpillar engine	4 C-300B	NOx/CO/VOC Opacity	Stack Test & Recordkeeping Recordkeeping	4.B.1 & 4.B.2 4.B.3	33.1-15-12-02, Subpart JJJJ, 33.1-15-22-03, Subpart ZZZZ & 33.1-15-12-02, Subpart 0000 33.1-15-14-06.5.a(3)(a)
Caterpillar engine	5 C-5701	NOx/CO/VOC Opacity	Stack Test & Recordkeeping Recordkeeping	4.B.1 & 4.B.2 4.B.3	33.1-15-12-02, Subpart JJJJ, 33.1-15-22-03, Subpart ZZZZ & 33.1-15-12-02, Subpart 0000 33.1-15-14-06.5.a(3)(a)

Caterpillar engine	6 C-5702	NOx/CO/VOC Opacity	Stack Test & Recordkeeping Recordkeeping	4.B.1 & 4.B.2 4.B.3	33.1-15-12-02, Subpart JJJJ, 33.1-15-22-03, Subpart ZZZZ & 33.1-15-12-02, Subpart 0000 33.1-15-14-06.5 .a(3)(a)
Caterpillar engine	7 C-4711	NOx/CO/VOC Opacity	Stack Test & Recordkeeping Recordkeeping	4.B.1 & 4.B.2 4.B.3	33.1-15-12-02, Subpart JJJJ, 33.1-15-22-03, Subpart ZZZZ & 33.1-15-12-02, Subpart 0000 33.1-15-14-06.5.a(3)(a)

Emission Unit Description	EP	Pollutant/Parameter	Monitoring Requirement (Method)	Condition Number	NDAC Applicable Requirement
Caterpillar engine	8 GEN-1	NOx/CO/VOC	Stack Test & Recordkeeping	4.B.1 & 4.B.2	33.1-15-12-02, Subpart JJJJ, 33.1-15-22-03, Subpart ZZZZ & 33.1-15-12-02, Subpart 0000
		Opacity	Recordkeeping	4.B.3	33.1-15-14-06.5 .a(3)(a)
Caterpillar engine	9 GEN-2	NOx/CO/VOC	Stack Test & Recordkeeping	4.B.1 & 4.B.2	33.1-15-12-02, Subpart JJJJ, 33.1-15-22-03, Subpart ZZZZ & 33.1-15-12-02, Subpart 0000
		Opacity	Recordkeeping	4.B.3	33.1-15-14-06.5.a(3)(a)
Natural gas-fired hot oil heater	10 B-940	Opacity	Recordkeeping	4.B.3	33.1-15-14-06.5 .a(3)(a)
Emergency and process flare	11 FL-8501	Opacity	Recordkeeping & YEO	4.B.4	33.1-15-14-06.5 .a(3)(a)
Caterpillar engine	17	NOx/CO/VOC	Stack Test & Recordkeeping	4.B.1 & 4.B.2	33.1-15-12-02, Subpart JJJJ, 33.1-15-22-03, Subpart ZZZZ & 33.1-15-12-02, Subpart 0000a
		Opacity	Recordkeeping	4.B.3	33.1-15-14-06.5.a(3)(a)
Caterpillar engine	19 C-2713	NOx/CO/VOC	Stack Test & Recordkeeping	4.B.1 & 4.B.2	33.1-15-12-02, Subpart JJJJ, 33.1-15-22-03, Subpart ZZZZ & 33.1-15-12-02, Subpart 0000a
		Opacity	Recordkeeping	4.B.3	33.1-15-14-06.5.a(3)(a)
Natural gas-fired hot oil heater	20 B-941	Opacity	Recordkeeping	4.B.3	33.1-15-14-06.5 .a(3)(a)
Natural gas-fired glycol reboiler heater	22 H-951	Opacity	Recordkeeping	4.B.3	33.1-15-14-06.5 .a(3)(a)
Fugitives - 0000 & 0000a	FUG-1 & FUG-2	VOC	LDAR	4.B.5	33.1-15-12-02, Subparts 0000 & 0000a

B. Monitoring Conditions:

- 1) For each engine, once every 8,760 hours of operation, three years, or when changes are made to an engine that may increase emission rates, whichever is more frequent, to provide a reasonable assurance of compliance, the permittee shall conduct an emissions test to measure NOx, CO and VOC emissions, using EPA approved 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 at least 20 minutes in length.

Note: This requirement may be satisfied if recurring testing is otherwise performed in accordance with requirements under 40 CFR 60, Subpart JJJJ or 40 CFR 63, Subpart ZZZZ.

- 2) For each reciprocating compressor affected facility, monitoring of cumulative hours of operation or number of months since previous replacement of the rod packing and dates and times of each rod packing replacement shall be in accordance with the requirements of 40 CFR 60, Subpart 0000, §60.5385 or Subpart 0000a, §60.5385a, as applicable.
- 3) For purposes of compliance monitoring, fuels outlined in Condition 2.A shall be considered credible evidence of compliance with any applicable opacity 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 burning of gaseous fuel as outlined in Condition 2.A, for evidence of compliance or noncompliance with any applicable opacity emission limit, in the event of enforcement action.
- 4) Visible Emissions Observations (VEO): At least once per week in which the emergency and process flare (EU FL-8501/EP 11) is operated, a company representative who is certified or has received Department approved visible emissions training (requires a one-time visible emissions session, plus one hour visible emissions field training; need not be certified) shall observe the emission point. If no visible emissions are observed, the date and time shall be recorded. If visible emissions are observed:
 - a) The permittee must investigate for a potential problem within eight hours. Any problems that are discovered must be corrected as soon as possible. If the correction of the emissions is expected to take longer than 24 hours, the permittee shall follow procedures as outlined in Condition 7.G.
 - 1] Following corrective maintenance, a visible emissions observation shall be made by a trained company representative (need not be certified). If no visible emissions are observed, the date and time shall be recorded. If visible emissions are observed, a formal visible emissions evaluation shall be conducted in accordance with Condition 4.B.4)b.
 - b) If visible emissions are observed for longer than 24 hours, the permittee shall conduct a formal visible emissions evaluation of the flare to determine if the emissions are in compliance with the applicable opacity standard. Opacity reading shall consist of three consecutive six-minute periods per day of flaring using EPA Reference Method 9 and conducted by a certified visible emissions reader.
 - c) All investigations of malfunctions and visible emissions shall be recorded. The permittee shall comply with the visible emissions emission limit and nothing in this condition shall be construed as authorizing otherwise.
- 5) For all equipment subject to the standard, the permittee shall comply with the inspection, monitoring and maintenance requirements of 40 CFR 60, Subpart 0000, §60.5400 or Subpart 0000a, §60.5397a and §60.5400a, as applicable.

C. In addition to the requirements outlined in Conditions 4.A and 4.B, monitoring shall be in accordance with the following requirements of the North Dakota Air Pollution Control Rules (NDAC) 33.1-15-12 and 33.1-15-22, 40 CPR 60 and 40 CPR 63, as applicable.

- 1) NDAC 33.1-15-12-02, Subpart De, §60.47c, Emission Monitoring
- 2) NDAC 33.1-15-22-03, Subpart HH, §63.773, Inspection and Monitoring Requirements

Applicable Requirements: NDAC 33.1-15-12, Subpart De and NDAC 33.1-15-22-03, Subpart HH

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)[I]

Monitoring Records

Emission Unit Description	EP	Pollutant/ Parameter	Compliance Monitoring Record
Caterpillar engines	100C, 100D, C-2711, C- 2712, C-2713, C-300A, C- 300B, C- 4711, C-5701, C-5702, GEN-1, GEN-2	NOx/CO/VOC Opacity	Stack Test Data & Rod Packing Monitoring Data Fuel Type Data
Natural gas-fired hot oil heater	B-940	Opacity	Fuel Type Data
Emergency and process flare	FL-8501	Opacity	Recordkeeping & YEO Data
Caterpillar engines	C-2713	NOx/CO/VOC Opacity	Stack Test Data & Rod Packing Monitoring Data Fuel Type Data

Natural gas-fired hot oil heater	B-941	Opacity	Fuel Type Data
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Emission Unit Description	EP	Pollutant/ Parameter	Compliance Monitoring Record
Natural gas-fired glycol reboiler oil heater	H-951	Opacity	Fuel Type Data
Fugitives - 0000 & OOOOa	FUG-1 & FUG-2	VOC	LDAR Inspection, Monitoring & Maintenance Records

B. In addition to requirements outlined in Condition 5.A, recordkeeping shall be in accordance with the following requirements of NDAC 33.1-15-12, 33.1-15-22 and 40 CFR 63, as applicable:

1) NDAC 33.1-15-12-02:

- a) Subpart A, §60.7, Notification and Recordkeeping
- b) Subpart Dc, §60.48c, Reporting and Recordkeeping Requirements
- c) Subpart JJJJ, §60.4245, Notification, Reports and Records for Owners and Operators
- d) Subpart 0000, §60.5420 and §60.5421, Notification, Reporting, and Recordkeeping Requirements and Additional Recordkeeping Requirements
- e) Subpart OOOOa, §60.5420a and §60.5421a, Notification, Reporting, and Recordkeeping Requirements and Additional Recordkeeping Requirements

2) NDAC 33.1-15-22-03:

- a) Subpart A, §63.10, Recordkeeping and Reporting Requirements
- b) Subpart HH, §63.774, Recordkeeping Requirements
- c) Subpart ZZZZ, §63.6655 and §63.6660, Notification, Reports and Records

Applicable Requirements: NDAC 33.1-15-12, Subparts A, De, JJJJ, 0000 and OOOOa and NDAC 33.1-15-22-03, Subparts A, HH and ZZZZ

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. Reporting shall be in accordance with the following requirements of NDAC 33.1-15-12 and 33.1-15-22, as applicable.

1) NDAC 33.1-15-12-02:

- a) Subpart A, §60.7, Notification and Recordkeeping
- b) Subpart De, §60.48c, Reporting and Recordkeeping Requirements
- c) Subpart JJJJ, §60.4245, Notification, Reports and Records for Owners and Operators
- d) Subpart 0000, §60.5420 and §60.5422, Notification, Reporting, and Recordkeeping Requirements and Additional Reporting Requirements
- e) Subpart OOOOa, §60.5420a and §60.5422a, Notification, Reporting, and Recordkeeping Requirements and Additional Reporting Requirements

2) NDAC 33.1-15-22-03:

- a) Subpart A, §63.10, Recordkeeping and Reporting Requirements
- b) Subpart HH, §63.775, Reporting Requirements
- c) Subpart ZZZZ, §63.6655 and §63.6660, Notification, Reports and Records

Applicable Requirements: Subparts A, De, JJJJ, 0000 and OOOOa and NDAC 33.1-15-22-03, Subparts A, HH and ZZZZ

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.

Applicable Requirements: NDAC 33.1-15-14-06.5.a(3)(c)[1] and [2]

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 (AEIR) 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. **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

- I. **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

J. 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)

- K. 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

- L. 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

M. **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

N. **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

O. **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)

P. **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(?) 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)

0. **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

Emissions Summary
1804, Ltd.
Springbrook Gas Plant

Emission Unit (EU) ID	Criteria Pollutant	PM ₁₀ (TPY)	PM _{2.5} (TPY)	NO _x (TPY)	SO ₂ (TPY)	CO (TPY)	VOC (TPY)
100C	Rotary Screw Compressor 1 Engine Caterpillar G3516B L	0.55	0.55	6.46	0.03	2.24	4.24
100D	Rotary Screw Compressor 2 Engine Caterpillar G3516B L	0.55	0.55	6.46	0.03	2.24	4.24
C-2711	Compressor Engine Caterpillar G3608 LE	0.01	0.01	11.43	0.04	4.40	14.40
C-2712	Compressor Engine Caterpillar G3608 LE	0.01	0.01	11.43	0.04	4.40	14.40
C-300A	Refrigeration Compressor Engine Caterpillar G3512B LE	0.00	0.00	4.99	0.02	1.60	4.59
C-300B	Refrigeration Compressor Engine Caterpillar G3512B LE	0.00	0.00	4.99	0.02	1.60	4.59
C-4711	Overhead Compressor Engine Caterpillar G3512B LE	0.00	0.00	4.99	0.02	2.01	4.59
C-5701	Lift Compressor Engine Caterpillar G3512B LE	0.00	0.00	4.99	0.02	2.01	4.59
C-5702	Lift Compressor Engine Caterpillar G3512B LE	0.00	0.00	4.99	0.02	2.01	4.59
C-2713	Compressor Engine Caterpillar G3606 A4	0.00	0.00	9.04	0.03	2.87	11.40
GEN1	Genset 1 Engine Caterpillar G3516B LE	0.00	0.00	17.54	0.03	5.75	6.84
GEN2	Genset 2 Engine Caterpillar G3516B LE	0.00	0.00	17.54	0.03	5.75	6.84
B-940	Hot Oil Heater	0.31	0.31	4.07	0.02	3.42	0.22
B-941	Hot Oil Heater	0.08	0.08	1.01	0.01	0.85	0.06
H-951	Glycol Heat Medium	0.09	0.09	1.21	0.01	1.02	0.07
TK-1	Oily Water Tank	---	---	---	---	---	5.73
FL-8501	Facility Emergency and Process Flare	---	---	39.65	0.00	180.76	36.11
LOAD1	NGL Loadout	---	---	---	---	---	1.05
LOAD2	Condensate Loadout	---	---	---	---	---	8.05
LOAD3	Oily Water Tank Loadout	---	---	---	---	---	0.32
PIG1	Pig Receiving	---	---	0.00	---	0.00	13.91
LIFTBD	Lift Compressor Blowdown	---	---	---	---	---	0.01
COMPBD	Compressor Blowdown	---	---	---	---	---	0.12
T-510/V-520	EG Still Vent and Flash Drum	---	---	---	---	---	0.14
FUG	Fugitive	---	---	---	---	---	21.95
TOTAL REQUESTED		1.61	1.61	150.82	0.38	222.91	173.07

Emissions Summary
1804, Ltd.
Springbrook Gas Plant

Emission Unit (EU) ID	Hazardous Air Pollutant	HAP (TPY)	n-Hexane (TPY)	Benzene (TPY)	Toluene (TPY)	E-benzene (TPY)	Xylenes (TPY)	MeOH (TPY)	224-TMP (TPY)	Acetaldehyde (TPY)	Acrolein (TPY)	CH ₂ O (TPY)
100C	Rotary Screw Compressor 1 Engine Caterpillar G3516B LE	1.150	---	0.012	---	---	---	0.069	---	0.229	0.141	0.699
100D	Rotary Screw Compressor 2 Engine Caterpillar G3516B LE	1.150	---	0.012	---	---	---	0.069	---	0.229	0.141	0.699
C-2711	Compressor Engine Caterpillar G3608 LE	1.282	---	0.016	---	---	---	0.088	---	0.295	0.182	0.701
C-2712	Compressor Engine Caterpillar G3608 LE	1.282	---	0.016	---	---	---	0.088	---	0.295	0.182	0.701
C-300A	Refrigeration Compressor Engine Caterpillar G3512B LE	0.912	---	0.007	---	---	---	0.041	---	0.138	0.085	0.642
C-300B	Refrigeration Compressor Engine Caterpillar G3512B LE	0.912	---	0.007	---	---	---	0.041	---	0.138	0.085	0.642
C-5701	Lift Compressor Engine Caterpillar G3512B LE	1.020	---	0.007	---	---	---	0.041	---	0.138	0.085	0.749
C-5702	Lift Compressor Engine Caterpillar G3512B LE	1.020	---	0.007	---	---	---	0.041	---	0.138	0.085	0.749
C-2713	Compressor Engine Caterpillar G3606 A4	0.959	---	0.012	---	---	---	0.070	---	0.234	0.144	0.499
C-4711	Overhead Compressor Engine Caterpillar G3512B LE	1.020	---	0.007	---	---	---	0.041	---	0.138	0.085	0.749
GEN1	Genset 1 Engine Caterpillar G3516B LE	1.168	---	0.012	---	---	---	0.071	---	0.237	0.146	0.702
GEN2	Genset 2 Engine Caterpillar G3516B LE	1.168	---	0.012	---	---	---	0.071	---	0.237	0.146	0.702
B-940	Hot Oil Heater	0.012	0.009	0.000	0.000	---	---	---	---	---	---	0.003
B-941	Hot Oil Heater	0.003	0.002	0.000	0.000	---	---	---	---	---	---	0.001
H-951	Glycol Heat Medium	0.002	0.001	0.000	0.000	---	---	---	---	---	---	0.000
TK-1	Oily Water Tank	1.136	0.988	0.020	0.020	0.003	0.006	---	0.100	---	---	---
FL-8501	Facility Emergency and Process Flare	0.007	0.006	0.001	0.000	0.000	0.000	---	0.000	---	---	---
LOAD1	NGL Loadout	0.018	0.016	0.001	0.001	0.000	0.000	---	---	---	---	---
LOAD2	Condensate Loadout	0.090	0.077	0.005	0.002	0.000	0.001	---	0.005	---	---	---
LOAD3	Oily Water Tank Loadout	0.072	0.000	0.059	0.011	0.002	0.000	---	0.000	---	---	---
PIG1	Pig Receiving	0.488	0.457	0.020	0.007	0.000	0.004	---	---	---	---	---
LIFTBD	Lift Compressor Blowdown	0.000	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---
COMPBD	Compressor Blowdown	0.004	0.004	0.000	0.000	0.000	0.000	---	---	---	---	---
T-510/V-520	EG Still Vent and Flash Drum	0.000	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---
FUG	Fugitive	0.172	0.149	0.007	0.003	0.001	0.001	---	0.004	---	---	---
TOTAL REQUESTED		15.048	1.711	0.240	0.044	0.005	0.012	0.731	0.110	2.445	1.503	8.240



June 3rd, 2024

**Ms. Kyla K. Schneider
North Dakota Department of Environmental Quality
Division of Air Quality**

**RE: H-951 Heater Replacement
Springbrook Gas Plant
SESE Section 22, T155N, R100W
Williams County, North Dakota**

Dear Ms. Schneider,

1804, Ltd. ("1804/Flatirons") is hereby submitting this package to the North Dakota Department of Environmental Quality, Division of Air Quality to request approval from the Division to replace H-951 (an insignificant emission source) at the Springbrook Gas Plant. The Springbrook Gas Plant is located at SESE Section 22, T155N, R100W in Williams County, North Dakota. Operating Permit AOP-28416 v1.1 currently authorizes the facility as a gas plant with a processing capacity of 70 million standard cubic feet of natural gas per day. The Springbrook Gas Plant operates under the Standard Industrial Classification ("SIC") codes 1311 for Crude Petroleum and 1321 for Natural Gas Liquids.

It was recently determined that H-951 needed to be replaced. 1804/Flatirons is requesting authorization to replace this heater with a larger heater that still meets the definition of an insignificant emission source. The emissions summary for the current and proposed replacement heater are attached. Upon authorization from the Division, 1804/Flatirons anticipates the heater replacement will take place in October or November, 2024.

If you have any questions or require any technical clarifications, please contact me at (720) 636-9688 or via email at ehammond@flatironsfs.com.

Sincerely,

1804, LTD

A handwritten signature in black ink, appearing to read 'Eric Hammond', is written over the typed name.

Eric Hammond
Engineering Manager

Natural Gas-Fired Glycol Reboiler Heater
Emissions Summary
1804, Ltd.

Basis

Unit(s)	H-951, Direct Fired Heater (Glycol Heat Medium)
Type	<100 MMBTU/hr
Annual Hours of Operation	8,760 hrs
Fuel Heat Content (HHV)	1,085 BTU/SCF

Current Heater

Heat Input 1.5 MMBtu/hr

New Heater

Heat Input 3.0 MMBtu/hr

Criteria Pollutant Emissions Estimate

Constituent	Emission Factors	Emissions	
	lb/MMscf	lb/hr	tpy
NOX	100	0.138	0.606
CO	84	0.116	0.509
VOC	5.5	0.008	0.033
Formaldehyde	0.075	0.000	0.000
n-Hexane	1.8	0.002	0.001
Toluene	0.0034	0.000	0.000
Benzene	0.0021	0.000	0.000
SO2	0.6	0.001	0.004
PM/PM10/PM2.5	7.6	0.011	0.046

Criteria Pollutant Emissions Estimate

Constituent	Emission Factors ^a	Emissions	
	lb/MMscf	lb/hr	tpy
NOX	100	0.276	1.211
CO	84	0.232	1.017
VOC	5.5	0.015	0.067
Formaldehyde	0.075	0.000	0.001
n-Hexane	1.8	0.005	0.003
Toluene	0.0034	0.000	0.000
Benzene	0.0021	0.000	0.000
SO2	0.6	0.002	0.007
PM/PM10/PM2.5	7.6	0.021	0.092

Change in Emissions

Criteria Pollutant Emissions Estimate

Constituent	Emissions	
	lb/hr	tpy
NOX	0.138	0.606
CO	0.116	0.509
VOC	0.008	0.033
Formaldehyde	0.000	0.000
n-Hexane	0.002	0.001
Toluene	0.000	0.000
Benzene	0.000	0.000
SO2	0.001	0.004
PM/PM10/PM2.5	0.011	0.046



Fulton Coil Design Thermal Fluid Heater

Model Number

300S-LF

National Board Number

11757

Serial Number

9825C

Max. Operating Temp.

600 F.

Max. Working Pressure

150 PSI

Thermal Fluid Coil

Inside Diameter

2.067 IN

Thickness

.154 IN

Heating Surface

374 SQ. FT.

Date

2024

 **Fulton**

Fulton Thermal Corporation

972 Centerville Rd.
Pulaski, New York
13142



Made In America
By Americans At

 **Fulton**

AIR POLLUTION CONTROL TITLE V PERMIT TO OPERATE

Permittee: Name: 1804 Ltd. LLC Address: 10385 Westmoor Drive, Ste 225 Westminster, CO 80021	Permit Number: AOP-28416 v2.0 Source Name: Springbrook Gas Plant
Source Location: 5621 – 131 st Avenue NW Williston, ND 58801 SE ¼, SE ¼, Sec. 22, T155N, R100W Williams County	Source Type: Natural Gas Processing and Compressor Station
Expiration Date: September 2, 2031	

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: TBD

James L. Semerad
 Director
 Division of Air Quality

Springbrook Gas Plant
Title V Permit to Operate
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1. **Emission Unit Identification:**

The emission units regulated by this permit are as follows:

Table 1.1 Emission Unit Identification

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
Caterpillar Model G3516 natural gas-fired engine (4SLB) rated at 1,340 bhp (manf. 2006, mod. 2025, NSPS JJJJ; NESHAP/MACT ZZZZ)	100C	100C	Oxidation Catalyst & Air/Fuel Ratio Control (AFRC)
Caterpillar Model G3516 natural gas-fired engine (4SLB) rated at 1,340 bhp (manf. 2006, mod. 2025, NSPS JJJJ; NESHAP/MACT ZZZZ)	100D	100D	Oxidation Catalyst & AFRC
Caterpillar Model G3512B LE natural gas-fired engine (4SLB) rated at 1,035 bhp (manf. 2013, NSPS JJJJ; NESHAP/MACT ZZZZ)	C-300A C-100A	C-300A C-100A	Oxidation Catalyst
Caterpillar Model G3512B LE natural gas-fired engine (4SLB) rated at 1,035 bhp (manf. 2013, NSPS JJJJ; NESHAP/MACT ZZZZ)	C-300B C-100B	C-300B C-100B	Oxidation Catalyst
Caterpillar Model G3608 LE natural gas-fired engine (4SLB) rated at 2,370 bhp (manf. 2014, NSPS JJJJ, OOOO; NESHAP/MACT ZZZZ)	C-2711	C-2711	Oxidation Catalyst
Caterpillar Model G3608 LE natural gas-fired engine (4SLB) rated at 2,370 bhp (manf. 2014, NSPS JJJJ, OOOO; NESHAP/MACT ZZZZ)	C-2712	C-2712	Oxidation Catalyst
Caterpillar Model G3606 A4 natural gas-fired engine (4SLB) rated at approximately 1,875 bhp. (manf. 9/2018, NSPS JJJJ, OOOOa; NESHAP/MACT ZZZZ)	C-2713	C-2713	Oxidation Catalyst
Caterpillar Model G3512B LE natural gas-fired engine (4SLB) rated at 1,035 bhp (manf. 2014, NSPS JJJJ, OOOO; NESHAP/MACT ZZZZ)	C-4711	C-4711	Oxidation Catalyst
Caterpillar Model G3512B LE natural gas-fired engine (4SLB) rated at 1,035 bhp (manf. 2014, NSPS JJJJ, OOOO; NESHAP/MACT ZZZZ)	C-5701	C-5701	Oxidation Catalyst
Caterpillar Model G3512B LE natural gas-fired engine (4SLB) rated at 1,035 bhp (manf. 2014, NSPS JJJJ, OOOO; NESHAP/MACT ZZZZ)	C-5702	C-5702	Oxidation Catalyst
Caterpillar Model G3516B LE natural gas-fired engine (4SLB) rated at 1,818 bhp (manf. 2014, NSPS JJJJ; NESHAP/MACT ZZZZ)	GEN-1	GEN-1	Oxidation Catalyst
Caterpillar Model G3516B LE natural gas-fired engine (4SLB) rated at 1,818 bhp (manf. 2014, NSPS JJJJ; NESHAP/MACT ZZZZ)	GEN-2	GEN-2	Oxidation Catalyst
Natural gas-fired hot oil heater rated at approximately 10 x 10 ⁶ Btu/hr (NSPS Dc)	B-940	B-940	None

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
Natural gas-fired hot oil process heater rated at 2.5 x 10⁶ Btu/hr	B-941^A	B-941	None
Natural gas-fired glycol reboiler heater rated at 1.5 x 10⁶ Btu/hr	H-951^A	H-951	None
Natural gas-fired hot oil heater rated at approximately 3.0 x 10 ⁶ Btu/hr	H-970 ^A	H-970	None
Emergency and process flare	FL-8501	FL-8501	None
Ethylene glycol dehydration unit rated at 70 MMscfd (NESHAP/MACT HH)	T-510 ^{A, B} / V-520 ^{A, B}	FL-8501	Emergency/ Process Flare
NGL loadout	LOAD1 ^A	LOAD1	None
Condensate loadout	LOAD2 ^A	LOAD2	None
Produced water storage loadout	LOAD3 ^A	LOAD3	None
Pigging activities	PIG1 ^A	PIG1	None
400-barrel oily water storage tank with taker truck loadout	TK-1 ^A	FUG-TK	Submerged Fill Pipe (SFP)
12,000 gallon propane tank	V-2110 ^A	FL-8501	Emergency/ Process Flare
Four NGL pressurized storage 90,000 bullet tanks	V-4401 ^{A, C} through V4404 ^{A, C}	Various	Returns Vapors to Inlet
30,000-gallon field condensate bullet tank	V-4407 ^A	FL-8501	Emergency/ Process Flare
Lift compressor blowdown	LIFTBD ^A	FL-8501	Emergency/ Process Flare
Compressor blowdown	COMPBD ^A	FL-8501	Emergency/ Process Flare
Fugitive emissions	FUG ^A	FUG	None
Fugitive emissions – NSPS OOOO	FUG-1 ^A	FUG-1	None
Fugitives emissions – NSPS OOOOa	FUG-2 ^A	FUG-2	None
Fugitives emissions – NSPS OOOOb	FUG-3 ^A	FUG-2	None

^A Insignificant or fugitive emission sources (no specific emission limit).

^B EU T-510 is the still vent and V-520 is the flash gas vent.

^C Tank vapors are captured using the VRU and are recycled back into the system for reprocessing, therefore, no expected emissions will result from these units.

2. Applicable Standards, Restrictions and Miscellaneous Conditions:

A. **Fuel Restrictions:** The engines (EU 100C, 100D, ~~C-100A, C-100B, C-300A, C-300B~~, C-2711, C-2712, C-2713, C-4711, C-5701, C-5702, GEN-1 and GEN-2) and the heaters (EU B-940, B-941

and H-951) are restricted to combusting only natural gas containing no more than 2 grains of sulfur per 100 standard cubic feet or commercial propane as defined by the Gas Processors Association

Applicable Requirements: ACP-17964 v1.0, ACP-18160 v1.0, ACP-18305 v1.0 and NDAC 33.1-15-14-06.5.b(1)

- B. **Stack Heights:** The stack height of each engine shall be at least 1.5 times the nearby building height. A nearby building is any building located a distance of less than five times the building height from the stack. In addition, the minimum stack height for each emission unit shall be as shown in the following table.

Table 2.1 Minimum Stack Heights

Emission Unit Description	EU	Stack Height (feet)	Applicable Requirement
Caterpillar engine	100C	20.8	ACP-18305 v1.0
Caterpillar engine	100D	20.8	ACP-18305 v1.0
Caterpillar engine	C-300A C-100A	46.5	ACP-17964 v1.0, ACP-18160 v1.0
Caterpillar engine	C-300B C-100B	46.5	ACP-17964 v1.0, ACP-18160 v1.0
Caterpillar engine	C-2711	46.5	ACP-17964 v1.0, ACP-18160 v1.0
Caterpillar engine	C-2712	46.5	ACP-17964 v1.0, ACP-18160 v1.0
Caterpillar engine	C-2713	28.5	ACP-17964 v1.0, ACP-18160 v1.0
Caterpillar engine	C-4711	46.5	ACP-17964 v1.0, ACP-18160 v1.0
Caterpillar engine	C-5701	46.5	ACP-17964 v1.0, ACP-18160 v1.0
Caterpillar engine	C-5702	46.5	ACP-17964 v1.0, ACP-18160 v1.0
Caterpillar engine	GEN-1	46.5	ACP-17964 v1.0, ACP-18160 v1.0
Caterpillar engine	GEN-2	46.5	ACP-17964 v1.0, ACP-18160 v1.0
Hot oil heater	B-940	14	ACP-17964 v1.0, ACP-18160 v1.0
Hot oil heater	B-941	15	ACP-17964 v1.0, ACP-18160 v1.0
Glycol heater	H-951	12	ACP-18160 v1.0
Emergency/process flare	FL-8501	120	ACP-17964 v1.0, ACP-18160 v1.0

Applicable Requirements: ACP-17964 v1.0, ACP-18160 v1.0 and ACP-18305 v1.0

C. **Flaring Restrictions:**

- 1) When it is necessary to operate the flare (EU FL-8501) 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.
- 2) The flare (EU FL-8501) 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.

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

Applicable Requirements: ACP-17964 v1.0 and NDAC 33.1-15-14-06.5.b(1)

- D. **Best Management Practices:** At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.

Applicable Requirement: ACP-18305 v1.0

- E. **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 Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (EU B-940).
- 2) Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (EU 100C, 100D, ~~C-100A~~, ~~C-300A~~, ~~C-300B~~, ~~C-100B~~, C-2711, C-2712, C-2713, C-4711, C-5701, C-5702, GEN-1 and GEN-2).
- 3) Subpart OOOO - Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced After August 23, 2011, and On or Before September 18, 2015 (reciprocating compressors for EU C-2711, C-2712, C-4711, C-5701 and C-5702 and FUG-1).
- 4) Subpart OOOOa - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015 and On or Before December 6, 2022 (reciprocating compressors for EU C-2713 and FUG-2).
- 5) Subpart OOOOb - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After December 6, 2022 (FUG-3). The North Dakota Department of Environmental Quality has not adopted the provisions of this subpart. Please send all documentation in accordance with EPA regulations to U.S. EPA Region 8.

Applicable Requirements: NDAC 33.1-15-12, Subparts A, Dc, JJJJ, OOOO and OOOOa and 40 CFR 60, Subpart OOOOb

- F. **National Emission Standards for Hazardous Air Pollutants (NESHAP)/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 HH - National Emissions Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities (EU T-510/V-520). The North Dakota Department of Environmental Quality has not adopted the area source provisions of this subpart. Please send all documentation in accordance with EPA regulations to U.S. EPA Region 8.
- 2) Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (EU 100C, 100D, C-100A ~~C-300A, C-300B~~ ~~C-100B~~, C-2711, C-2712, C-2713, C-4711, C-5701, C-5702, GEN-1, GEN-2). As an area source of HAP emissions, compliance with 40 CFR 63, Subpart ZZZZ is achieved by complying with 40 CFR 60, Subpart JJJJ. The North Dakota Department of Environmental Quality has not adopted the area source provisions of this subpart. Please send all documentation in accordance with EPA regulations to U.S. EPA Region 8.

Applicable Requirements: 40 CFR 63, Subparts A, HH and ZZZZ

G. **Like-Kind Emission Unit Replacement:** This permit allows the permittee to replace the existing emission unit with a like-kind unit. Replacement is subject to the following conditions.

- 1) 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.
- 2) The replacement unit shall operate in the same manner without increasing throughput and have equal or less emissions than the unit it is replacing.
- 3) 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 applicable federal standards (e.g. NSPS, NESHAP, MACT) triggered by the replacement.
- 4) Testing shall be conducted to confirm compliance with the emission limits within 180 days after start-up of the replacement unit. Emergency units shall not be required to test if replaced by a like-kind unit..

Applicable Requirements: ACP-17964 v1.0, ACP-18160 v1.0, ACP-18305 v1.0 and NDAC 33.1-15-14-06.5.b(1)

3. Emission Unit Limits:

Table 3.1 Emission Unit Limits

Emission Unit Description	EU	EP	Pollutant/Parameter	Emission Limit	NDAC Applicable Requirement
Caterpillar engine	100C	100C	NO _x	0.50 g/hp-hr ^A	ACP-18305 v1.0
			CO	0.18 g/hp-hr ^A	ACP-18305 v1.0
			VOC	0.33 g/hp-hr ^A	ACP-18305 v1.0
			Opacity	20% ^B	33.1-15-03-02
Caterpillar engine	100D	100D	NO _x	0.50 g/hp-hr ^A	ACP-18305 v1.0
			CO	0.18 g/hp-hr ^A	ACP-18305 v1.0
			VOC	0.33 g/hp-hr ^A	ACP-18305 v1.0
			Opacity	20% ^B	33.1-15-03-02
Caterpillar engine	C-300A C-100A	C-300A C-100A	NO _x	0.50 g/hp-hr ^A	ACP-18305 v1.0
			CO	0.16 g/hp-hr ^A	ACP-18305 v1.0
			VOC	0.46 g/hp-hr ^A	ACP-18305 v1.0
			Opacity	20% ^B	33.1-15-03-02
Caterpillar engine	C-300B C-100B	C-300B C-100B	NO _x	0.50 g/hp-hr ^A	ACP-18305 v1.0
			CO	0.16 g/hp-hr ^A	ACP-18305 v1.0
			VOC	0.46 g/hp-hr ^A	ACP-18305 v1.0
			Opacity	20% ^B	33.1-15-03-02
Caterpillar engine	C-2711	C-2711	NO _x	0.50 g/hp-hr ^A	ACP-18305 v1.0
			CO	0.20 g/hp-hr ^A	ACP-18305 v1.0
			VOC	0.63 g/hp-hr ^A	ACP-18305 v1.0
			Opacity	20% ^B	33.1-15-03-02

Emission Unit Description	EU	EP	Pollutant/Parameter	Emission Limit	NDAC Applicable Requirement
Caterpillar engine	C-2712	C-2712	NO _x	0.50 g/hp-hr ^A	ACP-18305 v1.0
			CO	0.20 g/hp-hr ^A	ACP-18305 v1.0
			VOC	0.63 g/hp-hr ^A	ACP-18305 v1.0
			Opacity	20% ^B	33.1-15-03-02
Caterpillar engine	C-2713	C-2713	NO _x	0.50 g/hp-hr ^A	ACP-18305 v1.0
			CO	0.16 g/hp-hr ^A	ACP-18305 v1.0
			VOC	0.63 g/hp-hr ^A	ACP-18305 v1.0
			Opacity	20% ^B	33.1-15-03-02
Caterpillar engine	C-4711	C-4711	NO _x	0.50 g/hp-hr ^A	ACP-18305 v1.0
			CO	0.21 g/hp-hr ^A	ACP-18305 v1.0
			VOC	0.46 g/hp-hr ^A	ACP-18305 v1.0
			Opacity	20% ^B	33.1-15-03-02
Caterpillar engine	C-5701	C-5701	NO _x	0.50 g/hp-hr ^A	ACP-18305 v1.0
			CO	0.21 g/hp-hr ^A	ACP-18305 v1.0
			VOC	0.46 g/hp-hr ^A	ACP-18305 v1.0
			Opacity	20% ^B	33.1-15-03-02
Caterpillar engine	C-5702	C-5702	NO _x	0.50 g/hp-hr ^A	ACP-18305 v1.0
			CO	0.21 g/hp-hr ^A	ACP-18305 v1.0
			VOC	0.46 g/hp-hr ^A	ACP-18305 v1.0
			Opacity	20% ^B	33.1-15-03-02
Caterpillar engine	GEN-1	GEN-1	NO _x	1.00 g/hp-hr ^A	ACP-18305 v1.0
			CO	0.33 g/hp-hr ^A	ACP-18305 v1.0
			VOC	0.39 g/hp-hr ^A	ACP-18305 v1.0
			Opacity	20% ^B	33.1-15-03-02

Emission Unit Description	EU	EP	Pollutant/Parameter	Emission Limit	NDAC Applicable Requirement
Caterpillar engine	GEN-2	GEN-2	NO _x	1.00 g/hp-hr ^A	ACP-18305 v1.0
			CO	0.33 g/hp-hr ^A	ACP-18305 v1.0
			VOC	0.39 g/hp-hr ^A	ACP-18305 v1.0
			Opacity	20% ^B	33.1-15-03-02
Natural gas-fired hot oil heater	B-940	B-940	Opacity	20% ^B	33.1-15-12, Subpart Dc & 33.1-15-03-02
Natural gas-fired hot oil heater	B-941	B-941	Opacity	20% ^B	33.1-15-03-02
Natural gas-fired glycol reboiler heater	H-951	H-951	Opacity	20% ^B	33.1-15-03-02
Natural gas-fired hot oil heater	H-970	H-970	Opacity	20% ^B	33.1-15-03-02
Emergency and process flare	FL-8501	FL-8501	Opacity	20% ^C	33.1-15-03-03.1
Dehydration unit	T-510/ V-520	FL-8501	Opacity	20% ^{B, D}	ACP-17964 v1.0 & 33.1-15-03-02
Facility-wide	All	All	Formaldehyde	9.5 tons/yr (12-month rolling period)	ACP-18305 v1.0
Fugitives – OOOO, OOOOa & OOOOb	FUG-1 & FUG-2	FUG-1 & FUG-2	VOC	Conditions 2.C.3, 2.C.4 & 2.C.5	33.1-15-12-02, Subparts OOOO & OOOOa & 40 CFR 60, Subpart OOOOb

- ^A Less restrictive 40 CFR 60 Subpart JJJJ limits also apply. The engines must also comply with any applicable emission limits established by 40 CFR 63, Subpart ZZZZ.
- ^B 40% opacity is permissible for not more than one six-minute period per hour.
- ^C 60% opacity is permissible for not more than one six-minute period per hour.
- ^D When operating the dehydration unit, EU T-510/ V-520, the permittee shall comply with the control device and work practice requirements as indicated in 40 CFR 63.11(b) for emissions controlled by EU FL-8501. Flares shall be designed for and operated with no visible emissions, except for periods not to exceed a total of five minutes during any two consecutive hours.

4. **Monitoring Requirements and Conditions:**

A. **Requirements:**

Table 4.1 Emission Monitoring

Emission Unit Description	EU	Pollutant/ Parameter	Monitoring Requirement (Method)	Condition Number	NDAC Applicable Requirement
Caterpillar engines	100C 100D C-300A C-100A C-300B C-100B	NO _x /CO/VOC	Stack Test	4.B.1	33.1-15-12-02, Subpart JJJJ, 40 CFR 63, Subpart ZZZZ
	C-2711 C-2712 C-2713 C-4711 C-5701 C-5702 GEN-1 GEN-2	Opacity	Recordkeeping	4.B.2	33.1-15-14-06.5.a(3)(a)
Natural gas-fired hot oil heater	B-940	Opacity	Recordkeeping	4.B.2	33.1-15-14-06.5.a(3)(a)
Natural gas-fired hot oil heater	B-941	Opacity	Recordkeeping	4.B.2	33.1-15-14-06.5.a(3)(a)
Natural gas-fired glycol reboiler heater	H-951	Opacity	Recordkeeping	4.B.2	33.1-15-14-06.5.a(3)(a)
Natural gas-fired glycol reboiler heater	H-970	Opacity	Recordkeeping	4.B.2	33.1-15-14-06.5.a(3)(a)
Emergency and process flare	FL-8501	Opacity	VEO & Recordkeeping	4.B.3	33.1-15-14-06.5.a(3)(a)
Reciprocating compressors	--	VOC	Recordkeeping	4.B.4	33.1-15-12-02, Subparts OOOO & OOOOa
Facility-wide	All	Formaldehyde	Calculation/ Recordkeeping	4.B.5	ACP-18305 v1.0
Fugitives – OOOO, OOOOa & OOOOb	FUG-1 FUG-2 & FUG-3	VOC	LDAR	4.B.6	33.1-15-12-02, Subparts OOOO & OOOOa & 40 CFR 60, Subpart OOOOb

B. **Monitoring Conditions:**

- 1) For each engine, once every 8,760 hours of operation, three years, or when changes are made to an engine that may increase emission rates, whichever is more frequent, to provide

a reasonable assurance of compliance, the permittee shall conduct an emissions test to measure NO_x, CO and VOC emissions, using EPA approved 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 at least 20 minutes in length.

Note: This requirement may be satisfied if recurring testing is otherwise performed in accordance with requirements under 40 CFR 60, Subpart JJJJ or 40 CFR 63, Subpart ZZZZ.

- 2) For purposes of compliance monitoring, fuels outlined in Condition 2.A shall be considered credible evidence of compliance with any applicable opacity 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 burning of gaseous fuel as outlined in Condition 2.A, for evidence of compliance or noncompliance with any applicable opacity emission limit, in the event of enforcement action.
- 3) Visible Emissions Observations (VEO): At least once per week in which the emergency and process flare (EU FL-8501/EP 11) is operated, a company representative who is certified, has been certified, or has received Department approved visible emissions training (requires a one-time visible emissions session) 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 shall record the date, time and observation results.
 - a) If the observation indicates visible emissions are present, the permittee must investigate for a potential problem within eight hours. Any problems that are discovered must be corrected as soon as possible. If the correction of the emissions is expected to take longer than 24 hours, the permittee shall follow procedures as outlined in Condition 7.G. Following corrective maintenance, a visible emissions observation shall be made
 - 1] If no visible emissions are observed, the date and time shall be recorded. If visible emissions are observed, a formal visible emissions evaluation shall be conducted in accordance with Condition 4.B.3)b.
 - b) If visible emissions are observed for longer than 24 hours, the permittee shall conduct a formal visible emissions evaluation of the flare to determine if the emissions are in compliance with the applicable opacity standard. Opacity reading shall consist of three consecutive six-minute periods per day of flaring using EPA Reference Method 9 and conducted by a certified visible emissions reader.
 - c) All instances of visible emissions, investigations of malfunctions and corrective actions shall be recorded. The permittee shall comply with the visible emissions emission limits in Table 3.1 and nothing in this condition shall be construed as authorizing otherwise.
- 4) For each reciprocating compressor affected facility, monitoring of cumulative hours of operation or number of months since previous replacement of the rod packing and dates

and times of each rod packing replacement shall be in accordance with the requirements of 40 CFR 60, Subpart OOOO, §60.5385 (reciprocating compressors for EU C-2711, C-2712, C-4711, C-5701 and C-5702) or Subpart OOOOa, §60.5385a (reciprocating compressors for EU C-2713), as applicable.

- 1) By the 15th day of each month, calculate the facility-wide formaldehyde emissions for the previous month and for the 12-month rolling period. In the event that formaldehyde exceeds 9.5 tons in a 12-month period, the permittee shall notify the Department by the 25th day of the month in which the calculation was made.
- 2) For all equipment subject to the standard, the permittee shall comply with the inspection, monitoring and maintenance requirements of 40 CFR 60, Subpart OOOO, §60.5400, Subpart OOOOa, §60.5397a and §60.5400a, or Subpart OOOOb, §60.5397b, §60.5398b and §60.5399b, as applicable.

C. In addition to the requirements outlined in Conditions 4.A and 4.B, monitoring shall be in accordance with the following requirements of NDAC 33.1-15-12 and 40 CFR 63, as applicable.

- 1) NDAC 33.1-15-12-02, Subpart Dc, §60.47c, Emission Monitoring
- 2) 40 CFR 63, Subpart HH, §63.773, Inspection and Monitoring Requirements

Applicable Requirements: NDAC 33.1-15-12-02, Subpart Dc and 40 FR 63, Subpart HH

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]

Table 5.1 Monitoring Records

Emission Unit Description	EP	Pollutant/ Parameter	Compliance Monitoring Record
Caterpillar engines	100C	NO _x /CO/VOC	Stack Test Data
	100D		
	C-300A	Opacity	Fuel Type Data
	C-100A		
	C-300B		
	C-100B		
	C-2711		
	C-2712		
	C-2713		
	C-4711		
	C-5701		
	C-5702		
GEN-1			
GEN-2			
Natural gas-fired heaters	B-940	Opacity	Fuel Type Data
	B-941		
	H-951		
	H-970		
Emergency and process flare	FL-8501	Opacity	VEO & Recordkeeping Data
Reciprocating compressors	--	VOC	Recordkeeping Data
Facility-wide	All	Formaldehyde	Calculation/Recordkeeping Data
Fugitives – OOOO, OOOOa & OOOOb	FUG-1 & FUG-2	VOC	LDAR Inspection, Monitoring & Maintenance Records

B. In addition to requirements outlined in Condition 5.A, recordkeeping shall be in accordance with the following requirements of NDAC 33.1-15-12 and 40 CFR 63, as applicable.

- 1) NDAC 33.1-15-12-02:
 - a) Subpart A, §60.7, Notification and Recordkeeping
 - b) Subpart Dc, §60.48c, Reporting and Recordkeeping Requirements
 - c) Subpart JJJJ, §60.4245, Notification, Reports and Records for Owners and Operators
 - d) Subpart OOOO, §60.5420 and §60.5421, Notification, Reporting, and Recordkeeping Requirements and Additional Recordkeeping Requirements
 - e) Subpart OOOOa, §60.5420a and §60.5421a, Notification, Reporting, and Recordkeeping Requirements and Additional Recordkeeping Requirements

- f) Subpart OOOOb, 60.5420b, §60.5421b and §60.5422b, Notification, Reporting, and Recordkeeping Requirements and Additional Recordkeeping and Reporting Requirements
- 2) 40 CFR 63:
- a) Subpart A, §63.10, Recordkeeping and Reporting Requirements
 - b) Subpart HH, §63.774, Recordkeeping Requirements
 - c) Subpart ZZZZ, §63.6655 and §63.6660, Notification, Reports and Records

Applicable Requirements: NDAC 33.1-15-12-02, Subparts A, Dc, JJJJ, OOOO and OOOOa and 40 CFR 63, Subparts A, HH and ZZZZ

- 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. Reporting shall be in accordance with the following requirements of NDAC 33.1-15-12 and 40 CFR 63, as applicable.
- 1) NDAC 33.1-15-12-02:
 - a) Subpart A, §60.7, Notification and Recordkeeping
 - b) Subpart Dc, §60.48c, Reporting and Recordkeeping Requirements
 - c) Subpart JJJJ, §60.4245, Notification, Reports and Records for Owners and Operators
 - d) Subpart OOOO, §60.5420 and §60.5422, Notification, Reporting, and Recordkeeping Requirements and Additional Reporting Requirements
 - e) Subpart OOOOa, §60.5420a and §60.5422a, Notification, Reporting, and Recordkeeping Requirements and Additional Reporting Requirements
 - f) Subpart OOOOb, 60.5420b, §60.5421b and §60.5422b, Notification, Reporting, and Recordkeeping Requirements and Additional Recordkeeping and Reporting Requirements

- 2) 40 CFR 63:
 - a) Subpart A, §63.10, Recordkeeping and Reporting Requirements
 - b) Subpart HH, §63.775, Reporting Requirements
 - c) Subpart ZZZZ, §63.6655 and §63.6660, Notification, Reports and Records

Applicable Requirements: NDAC 33.1-15-12-02, Subparts A, Dc, JJJJ, OOOO and OOOOa and 40 CFR 63, Subparts A, HH and ZZZZ

- 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.

Note: Semi-annual LDAR reports for 40 CFR 60, Subparts OOOO and OOOOa shall be provided separately.

Applicable Requirements: NDAC 33.1-15-14-06.5.a(3)(c)[1] and [2]

- 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 (AEIR) 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 Modifications:** 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

Emissions Summary
1804, Ltd.
Springbrook Gas Plant

Emission Unit (EU) ID	Criteria Pollutant	PM ₁₀ (TPY)	PM _{2.5} (TPY)	NO _x (TPY)	SO ₂ (TPY)	CO (TPY)	VOC (TPY)
100C	Rotary Screw Compressor 1 Engine Caterpillar G3516B L	0.55	0.55	6.46	0.03	2.24	4.24
100D	Rotary Screw Compressor 2 Engine Caterpillar G3516B L	0.55	0.55	6.46	0.03	2.24	4.24
C-2711	Compressor Engine Caterpillar G3608 LE	0.01	0.01	11.43	0.04	4.40	14.40
C-2712	Compressor Engine Caterpillar G3608 LE	0.01	0.01	11.43	0.04	4.40	14.40
C-300A C-100A	Refrigeration Compressor Engine Caterpillar G3512B LE	0.00	0.00	4.99	0.02	1.60	4.59
C-300B C-100B	Refrigeration Compressor Engine Caterpillar G3512B LE	0.00	0.00	4.99	0.02	1.60	4.59
C-4711	Overhead Compressor Engine Caterpillar G3512B LE	0.00	0.00	4.99	0.02	2.01	4.59
C-5701	Lift Compressor Engine Caterpillar G3512B LE	0.00	0.00	4.99	0.02	2.01	4.59
C-5702	Lift Compressor Engine Caterpillar G3512B LE	0.00	0.00	4.99	0.02	2.01	4.59
C-2713	Compressor Engine Caterpillar G3606 A4	0.00	0.00	9.04	0.03	2.87	11.40
GEN1	Genset 1 Engine Caterpillar G3516B LE	0.00	0.00	17.54	0.03	5.75	6.84
GEN2	Genset 2 Engine Caterpillar G3516B LE	0.00	0.00	17.54	0.03	5.75	6.84
B-940	Hot Oil Heater	0.31	0.31	4.07	0.02	3.42	0.22
B-944	Hot Oil Heater	0.08	0.08	1.01	0.01	0.85	0.06
H-954	Glycol Heat Medium	0.09	0.09	1.21	0.01	1.02	0.07
H-970	Hot Oil Heater	0.09	0.09	1.21	0.01	1.02	0.07
TK-1	Oily Water Tank	---	---	---	---	---	5.73
FL-8501	Facility Emergency and Process Flare	---	---	39.65	0.00	180.76	36.11
LOAD1	NGL Loadout	---	---	---	---	---	1.05
LOAD2	Condensate Loadout	---	---	---	---	---	8.05
LOAD3	Oily Water Tank Loadout	---	---	---	---	---	0.32
PIG1	Pig Receiving	---	---	0.00	---	0.00	13.91
LIFTBD	Lift Compressor Blowdown	---	---	---	---	---	0.01
COMPBD	Compressor Blowdown	---	---	---	---	---	0.12
T-510/V-520	EG Still Vent and Flash Drum	---	---	---	---	---	0.14
FUG	Fugitive	---	---	---	---	---	21.95
TOTAL REQUESTED		1.53	1.53	149.81	0.38	222.06	173.02

Emissions Summary
1804, Ltd.
Springbrook Gas Plant

Emission Unit (EU) ID	Hazardous Air Pollutant	HAP (TPY)	n-Hexane (TPY)	Benzene (TPY)	Toluene (TPY)	E-benzene (TPY)	Xylenes (TPY)	MeOH (TPY)	224-TMP (TPY)	Acetaldehyde (TPY)	Acrolein (TPY)	CH ₂ O (TPY)
100C	Rotary Screw Compressor 1 Engine Caterpillar G3516B LE	1.150	---	0.012	---	---	---	0.069	---	0.229	0.141	0.699
100D	Rotary Screw Compressor 2 Engine Caterpillar G3516B LE	1.150	---	0.012	---	---	---	0.069	---	0.229	0.141	0.699
C-2711	Compressor Engine Caterpillar G3608 LE	1.282	---	0.016	---	---	---	0.088	---	0.295	0.182	0.701
C-2712	Compressor Engine Caterpillar G3608 LE	1.282	---	0.016	---	---	---	0.088	---	0.295	0.182	0.701
C-300A C-100A	Refrigeration Compressor Engine Caterpillar G3512B LE	0.912	---	0.007	---	---	---	0.041	---	0.138	0.085	0.642
C-300B C-100B	Refrigeration Compressor Engine Caterpillar G3512B LE	0.912	---	0.007	---	---	---	0.041	---	0.138	0.085	0.642
C-5701	Lift Compressor Engine Caterpillar G3512B LE	1.020	---	0.007	---	---	---	0.041	---	0.138	0.085	0.749
C-5702	Lift Compressor Engine Caterpillar G3512B LE	1.020	---	0.007	---	---	---	0.041	---	0.138	0.085	0.749
C-2713	Compressor Engine Caterpillar G3606 A4	0.959	---	0.012	---	---	---	0.070	---	0.234	0.144	0.499
C-4711	Overhead Compressor Engine Caterpillar G3512B LE	1.020	---	0.007	---	---	---	0.041	---	0.138	0.085	0.749
GEN1	Genset 1 Engine Caterpillar G3516B LE	1.168	---	0.012	---	---	---	0.071	---	0.237	0.146	0.702
GEN2	Genset 2 Engine Caterpillar G3516B LE	1.168	---	0.012	---	---	---	0.071	---	0.237	0.146	0.702
B-940	Hot Oil Heater	0.012	0.009	0.000	0.000	---	---	---	---	---	---	0.003
B-944	Hot Oil Heater	0.003	0.002	0.000	0.000	---	---	---	---	---	---	0.004
H-954	Glycol Heat Medium	0.002	0.004	0.000	0.000	---	---	---	---	---	---	0.000
H-970	Hot Oil Heater	0.004	0.003	0.000	0.000	---	---	---	---	---	---	0.001
TK-1	Oily Water Tank	1.136	0.988	0.020	0.020	0.003	0.006	---	0.100	---	---	---
FL-8501	Facility Emergency and Process Flare	0.007	0.006	0.001	0.000	0.000	0.000	---	0.000	---	---	---
LOAD1	NGL Loadout	0.018	0.016	0.001	0.001	0.000	0.000	---	---	---	---	---
LOAD2	Condensate Loadout	0.090	0.077	0.005	0.002	0.000	0.001	---	0.005	---	---	---
LOAD3	Oily Water Tank Loadout	0.072	0.000	0.059	0.011	0.002	0.000	---	0.000	---	---	---
PIG1	Pig Receiving	0.488	0.457	0.020	0.007	0.000	0.004	---	---	---	---	---
LIFTBD	Lift Compressor Blowdown	0.000	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---
COMPBD	Compressor Blowdown	0.004	0.004	0.000	0.000	0.000	0.000	---	---	---	---	---
T-510/V-520	EG Still Vent and Flash Drum	0.000	0.000	0.000	0.000	0.000	0.000	---	---	---	---	---
FUG	Fugitive	0.172	0.149	0.007	0.003	0.001	0.001	---	0.004	---	---	---
TOTAL REQUESTED		15.047	1.710	0.240	0.044	0.005	0.012	0.731	0.110	2.445	1.503	8.239