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# Air Title V Operating Permit (AOP) - Modification

version 2.5

(Submission #: HQB-P37J-0HPDZ, version 1)

## Details

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**Submission ID** HQB-P37J-0HPDZ

**Status** In Process

## Form Input

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### Form Instructions

### Section A - Permit Information

**Permit Number**

AOP-28518

**Permit Version**

1

**Issue Date**

03/15/2023

**Expiration Date**

03/15/2028

**Owner**

**Company Name**

ONEOK, Inc.

**Address**

100 W. Fifth St.

Tulsa, OK 74103

United States

**Responsible Official**

**Prefix**

NONE PROVIDED

**First Name**

Dick

**Last Name**

Vande-Bossche

**Title**

Vice President - ONEOK Rockies Midstream Operations

**Phone Type**

Business

**Number**

406-433-8710

**Extension**

**Email**

dick.vandebossche@oneok.com

**Address**

896 25th St SE

Sidney, MT 59270

United States

**Contact Person for Air Pollution Matters**

**Prefix**

NONE PROVIDED

**First Name**

Jeremy

**Last Name**

Chrobak

**Title**

Environmental Professional II

**Phone Type**

Business

**Number**

918-800-3917

**Extension**

**Email**

jeremy.chrobak@oneok.com

**Address**

100 W. Fifth St

Tulsa, OK 74103

United States

**Section B (Part 1) - Facility Information and Modification Form**

**Facility Name**

ONEOK Rockies Midstream, L.L.C. - Antelope Compressor Station

**Is this a Minor Modification application according to NDAC 33.1-15-14-06.6.e(1) or a Significant Modification application according to NDAC 33.1-15-14-06.6.e(3)?**

Application for Significant Modification

**Is this source subject to Title IV Acid Rain regulations?**

No

**Is this a portable source?**

No

**Facility Location**

County Road 6

SW 1/4, NW 1/4 Sec 12, T 152N, R 94W

New Town, ND 58763

United States

**County**

McKenzie

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

[Google Maps](#)

**Facility Location:**

48.00288900000000,-102.6616670000000

County Road 6, New Town, 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**

<a href="#">Antelope_02_TemplateSFN52858_SIGNED.pdf - 12/01/2025 10:45 AM</a>
<b>Comment</b>
NONE PROVIDED

**Section B (Part 2) - Additional Location Information**

**Legal Description of Facility Site**

Qtr Qtr	Qtr	Section	Township	Range
NONE PROVIDED	NW	12	152N	94W

**Land area at facility site (in sq. ft.)**

NONE PROVIDED

**Mean sea level (MSL) elevation at facility (in feet)**

NONE PROVIDED

**Section C - Nature of Business**

**General Nature of Business**

Describe Nature of Business	NAICS Code	SIC Code
Natural Gas Compression	211130-Natural Gas Extraction	1311-Crude Petroleum and Natural Gas

**Actual Start of Construction Date**

NONE PROVIDED

**Actual End of Construction Date**

NONE PROVIDED

**Facility Startup Date**

NONE PROVIDED

**Date of Equipment Modification that Triggers this Title V Permit Modification Application.**

01/06/2025

**Section D - Process Equipment Information (1 of 2)**

**Emission Unit - FL-2**

**Emission Unit ID**

FL-2

**Emission Unit Description**

Low Pressure (LP) Flare

**Emission Point ID**

FL-2

**Emission Point Description**

Low Pressure (LP) Flare

**Emission Process Description**

The flare system is used for Safety, Maintenance, Upsets, Process, and Low Pressure flaring as needed for the station.

**Emission Unit Status**

New

**Applicable PTCs**

PTC Number
ACP-18250 v1.0

**Applicable Federal Air Programs**

Program Code
New Source Performance Standards

**NSPS Air Program Subparts**

Subpart
Subpart A - GENERAL PROVISIONS

**Applicable State Regulations**

Regulation
33.1-15-03-03. Visible Emissions. Restrictions applicable to fugitive emissions.

**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**

[Antelope\\_03\\_EmissionUnitForm\\_SF61006\\_SIGNED.pdf - 12/01/2025 11:06 AM](#)

**Comment**

NONE PROVIDED

**Section D - Process Equipment Information (2 of 2)****Emission Unit - FL-1****Emission Unit ID**

FL-1

**Emission Unit Description**

Emergency/Process Flare

**Emission Point ID**

FL-1

**Emission Point Description**

Emergency/Process Flare

**Emission Process Description**

The flare system is used for Safety, Maintenance, Upsets, Process, &amp; Emergency flaring as needed for the station.

**Emission Unit Status**

Existing, to be removed

**Applicable PTCs**

PTC Number
ACP-17901 v1.0

**Applicable Federal Air Programs**

Program Code
New Source Performance Standards

**NSPS Air Program Subparts**

Subpart
Subpart A - GENERAL PROVISIONS

**Applicable State Regulations**

Regulation
33.1-15-03-03. Visible Emissions. Restrictions applicable to fugitive emissions.

**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**

FL-1 was shutdown on 09/23/2025. Notification of the notice of shutdown occurred at the same time as the FL-2 startup notification on 09/26/2025.

**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
New Source Performance Standards

**NSPS Air Program Subparts**

Subpart
Subpart A - GENERAL PROVISIONS

**Applicable State Regulations**

Regulation
33.1-15-03-03. Visible Emissions. Restrictions applicable to fugitive emissions.

**Potential to Emit (PTE)**

Pollutant	Tons Per Year Without Fugitives	Tons Per Year With Fugitives
NOx	96.18	96.18
CO	86.06	86.06
VOCs	154.65	165.68
SO2	0.24	0.24
PM	4.11	4.11
PM10	4.11	4.11
PM2.5	4.11	4.11
Total HAPs	16.7	17.89

**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**

[Antelope\\_05\\_EmEst\\_SigMod\\_signed.pdf - 12/01/2025 11:42 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 link. Please provide new or modified CAM Plans here.

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.

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

### Attach completed form

NONE PROVIDED

#### Comment

NONE PROVIDED

## 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

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

[2025-1124\\_ORM-AntelopeCS\\_Title V PTO\\_AOP28518v1\\_0\\_REDLINED\\_FINAL.pdf - 12/01/2025 12:43 PM](#)

#### Comment

It should have red-lined comments in the pdf. Please advise if unable to read the comments. Thank you!

## 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

[Antelope\\_App\\_FINAL\\_SIGNED.pdf - 12/01/2025 12:47 PM](#)

[Antelope\\_00\\_SigMod\\_CvrLtr\\_FINAL.pdf - 12/01/2025 12:47 PM](#)

[2025-1124\\_ORM-AntelopeCS\\_Title V PTO\\_AOP28518v1\\_0\\_REDLINED\\_FINAL.pdf - 12/01/2025 12:51 PM](#)

#### Comment

Documents enclosed include project description, Process Description, Applicable rules, SFN52858, Emission Unit Information (SFN61006), Compliance Schedule and Plan (SFN61008), Process Flow Diagram, Potential to Emit/Emission Tables, and the redlined Title V Operating Permit.

### Additional Forms

NONE PROVIDED

## Attachments

Date	Attachment Name	Context	User
12/1/2025 12:51 PM	2025-1124_ORM -AntelopeCS_Title V PTO_AOP28518v1_0_REDLINED_FINAL.pdf	Attachment	Jeremy Chrobak
12/1/2025 12:47 PM	Antelope_00_SigMod_CvrLtr_FINAL.pdf	Attachment	Jeremy Chrobak
12/1/2025 12:47 PM	Antelope_App_FINAL_SIGNED.pdf	Attachment	Jeremy Chrobak
12/1/2025 12:43 PM	2025-1124_ORM -AntelopeCS_Title V PTO_AOP28518v1_0_REDLINED_FINAL.pdf	Attachment	Jeremy Chrobak
12/1/2025 11:42 AM	Antelope_05_EmEst_SigMod_signed.pdf	Attachment	Jeremy Chrobak
12/1/2025 11:06 AM	Antelope_03_EmissionUnitForm_SFN61006_SIGNED.pdf	Attachment	Jeremy Chrobak
12/1/2025 10:45 AM	Antelope_02_TemplateSFN52858_SIGNED.pdf	Attachment	Jeremy Chrobak

## Status History

	User	Processing Status
4/7/2025 4:19:40 PM	Joshua Hills	Draft
12/1/2025 1:25:41 PM	Jeremy Chrobak	Signing
12/1/2025 1:25:41 PM	Jeremy Chrobak	Submitting
12/1/2025 1:26:54 PM	Jeremy Chrobak	Submitted
12/1/2025 1:27:02 PM	Jeremy Chrobak	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** Jeremy Chrobak on 12/01/2025 at 1:25 PM



*SUBMITTED ELECTRONICALLY VIA CERIS*

December 01, 2025

Mr. Jim Semerad  
North Dakota Department of Environmental Quality  
Division of Air Quality  
918 East Divide Avenue, 2<sup>nd</sup> Floor  
Bismarck, ND 58501-1947

**ONEOK ROCKIES MIDSTREAM, L.L.C.  
ANTELOPE COMPRESSOR STATION  
PERMIT TO OPERATE – SIGNIFICANT MODIFICATION OF FLARE 1 & 2**

Dear Mr. Semerad,

ONEOK Rockies Midstream, L.L.C. (ORM) operates the Antelope Compressor Station in McKenzie County, North Dakota pursuant to Permit No. AOP-28518 v1.0 & ACP-18250 v1.0. ORM submits this Permit to Operate – Significant Modification to incorporate flare 2 (EU FL-2) to the facility operating permit per conditions in the construction permit, and to remove flare 1 (EU FL-1) from the operating permit.

If you need additional information or have any questions, please call me at 918-800-3917 or [Jeremy.chrobak@oneok.com](mailto:Jeremy.chrobak@oneok.com).

Sincerely,

A handwritten signature in green ink that reads "Jeremy Chrobak". The signature is written in a cursive, flowing style.

Jeremy Chrobak  
Environmental Professional II

xc: J. Jepson/V. Danzeisen/K. Rudningen/J. Ellette/D. Vande Bossche (.pdf)  
Tulsa Environmental Files – Antelope Compressor Station – Permit Actions  
ACTS Notification

# **Permit to Operate – Significant Modification**

**Antelope Compressor Station**

**ONEOK Rockies Midstream, L.L.C.**



**Submitted to NDDEQ Air Quality Division  
November 2025**

ONEOK Rockies Midstream, L.L.C.  
Antelope Compressor Station  
November 2025

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ONEOK Rockies Midstream, L.L.C.  
Antelope Compressor Station  
November 2025

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## Introduction

ONEOK Rockies Midstream, L.L.C. (ORM) operates the Antelope Compressor Station in McKenzie County, North Dakota pursuant to Permit No. AOP-28518 v1.0, and ACP-18250 v1.0. ORM submits this Permit to Operate – Significant Modification to incorporate flare 2 (EU FL-2) to the facility operating permit per conditions in the construction permit, and to remove flare 1 (EU FL-1) from the operating permit.

## Facility Equipment

Antelope Compressor Station consists of six (6) 2,370-hp Caterpillar G3608LE compressor engines, ten (10) 400-bbl condensate tanks, two (2) 400-bbl produced water tanks, one (1) LACT divert tank, one (1) 400-bbl methanol tank, and one (1) process flare for controlling emergency and process relief venting from all equipment. Associated emission sources include condensate truck loading, fugitive emissions and miscellaneous vents and blowdowns. A vapor recovery unit (VRU) controls emissions from the condensate tanks and LACT divert tank.

## Process Description

A pipeline gathering system transports field natural gas from wells through an inlet separator where free liquids are removed and stored in the condensate tanks. Natural gas then passes through a suction header and is routed to the compressors, which boost gas pressure. The compressor units discharge natural gas into a pipeline for transmission. Condensate is transported off-site via tank truck for sales. Emissions from fugitive components and miscellaneous vents and blowdowns also occur at the facility. An emergency flare utilized is to combust compressor blowdowns and for emergency upsets.

## Federal Regulatory Applicability

The facility is a natural gas compressor station that falls under the North American Industrial Classification System (NAICS) code 211130 (formerly Standard Industrial Classification (SIC) 1311).

**New Source Performance Standards 40 CFR Part 60 Subpart JJJJ**, Stationary Spark Ignition Internal Combustion Engines (SI-ICE) promulgates emission standards for all new SI engines ordered after June 12, 2006, and all SI engines modified or reconstructed after June 12, 2006, regardless of size. The specific emission standards (either in g/hp-hr or as a concentration limit) vary based on engine class, engine power rating, lean-burn or rich-burn, fuel type, duty (emergency or non-emergency), and various manufacture dates. The compressor engines were manufactured after July 1, 2010; therefore, are subject to the Stage 2 emissions limitations of this subpart.

**New Source Performance Standards 40 CFR Part 60 Subpart OOOO**, Crude Oil and Natural Gas Production, Transmission and Distribution, establishes emission standards for the following equipment that commences construction, modification, or reconstruction after August 23, 2011 and on or before September 18, 2015 at crude oil and natural gas production, transmission or distribution facilities:

1. Each single gas well;
2. Single centrifugal compressors using wet seals located between the wellhead and the point of custody transfer to the natural gas transmission and storage segment;
3. Single reciprocating compressors located between the wellhead and the point of custody transfer to the natural gas transmission and storage segment;

ONEOK Rockies Midstream, L.L.C.  
Antelope Compressor Station  
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4. Single continuous bleed natural gas driven pneumatic controllers with a natural gas bleed rate greater than 6 SCFH, located between the wellhead and the point of custody transfer to the natural gas transmission and storage segment and not located at a natural gas processing plant;
5. Single continuous bleed natural gas driven pneumatic controllers located at a natural gas processing plant;
6. Single storage vessels located in the oil and natural gas production segment, natural gas processing segment, or natural gas transmission and storage segment with the potential for VOC emissions equal to or greater than 6 tons per year;
7. All equipment, except compressors, within a process unit at an onshore natural gas processing plant;
8. Sweetening units located at onshore natural gas processing plants.

All potentially affected equipment at Antelope Compressor Station was constructed after September 18, 2015 and is not subject to this subpart.

**New Source Performance Standards 40 CFR Part 60 Subpart OOOOa**, Crude Oil and Natural Gas Facilities, establishes emission standards for the following equipment that commences construction, modification or reconstruction after September 18, 2015 at crude oil and natural gas production, transmission or distribution facilities:

1. Each single oil or gas well that conducts a completion following hydraulic fracturing or refracturing;
2. Single centrifugal compressors using wet seals that are not located at a well site;
3. Single reciprocating compressors not located at a well site;
4. Single continuous bleed natural gas driven pneumatic controllers with a natural gas bleed rate greater than 6 SCFH, not located at a natural gas processing plant;
5. Single continuous bleed natural gas driven pneumatic controllers located at a natural gas processing plant;
6. Single storage vessels with the potential for VOC emissions equal to or greater than 6 tons per year;
7. The group of all equipment within a process unit;
8. The group of fugitive emissions equipment at a compressor station;
9. The group of fugitive emissions equipment at a well site;
10. Sweetening units located at onshore natural gas processing plants;
11. Pneumatic pumps at natural gas processing plants and well sites.

Potentially affected equipment includes the reciprocating compressors associated with each of the compressor engines. ORM complies with the requirements for rod packing replacement as required. Any continuous bleed pneumatic controllers at the facility have a bleed rate less than 6 SCFH; therefore, they are not subject to this subpart. The condensate tanks were constructed after September 18, 2015 but are controlled so their emissions are less than 6 tons per year each. The produced water tanks were also constructed after September 18, 2015, but their emissions are less than 6 tons per year uncontrolled. ORM requests to retain the federally enforceable emission limitation of 5.99 tons per year for each tank so that they are not subject to this subpart. The facility meets the definition of a new compressor station and therefore is subject to the leak detection requirements of this subpart.

**New Source Performance Standards 40 CFR Part 60 Subpart OOOOb**, Crude Oil and Natural Gas Facilities, establishes emission standards for the following equipment that commences construction, modification or reconstruction after December 6, 2022 at crude oil and natural gas facilities:

1. Each single oil or gas well;;
2. Single centrifugal compressors using wet or dry seals that are not located at a well site;
3. Single reciprocating compressors not located at a well site;
4. Each collection of natural gas-driven process controllers at a well site, centralized production facility, onshore natural gas processing plant, or compressor station;

ONEOK Rockies Midstream, L.L.C.  
Antelope Compressor Station  
November 2025

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5. Storage vessel batteries with either the potential for VOC emissions equal to or greater than 6 tons per year or the potential for methane emissions equal to or greater than 20 tons per year;
6. The group of all equipment within a process unit at an onshore natural gas processing plant;
7. Sweetening units;
8. The group of all natural gas-driven pumps at a well site, centralized production facility, onshore natural gas processing plant, or compressor station;
9. The group of fugitive emissions equipment at a well site, centralized production facility or compressor station;

Potentially affected equipment includes the reciprocating compressors associated with each of the compressor engines, fugitive emissions, and the tank battery associated with the condensate and produced water tanks. The condensate and produced water tanks were constructed before December 6, 2022 and are not subject to this subpart. The facility was constructed prior to December 6, 2022, and there hasn't been any modifications since December 6, 2022; therefore, fugitive emissions are not subject to this subpart.

**National Emission Standards for Hazardous Air Pollutants 40 CFR Part 63 Subpart ZZZZ**, Reciprocating Internal Combustion Engines (RICE), affects any existing, new or reconstructed stationary RICE located at a major or area source of HAP emissions. Owners and operators of new or reconstructed engines at area sources must meet the requirements of Subpart ZZZZ by complying with either 40 CFR Part 60 Subpart IIII (for CI engines) or 40 CFR Part 60 Subpart JJJJ (for SI engines). Based on emission calculations, this facility is a minor source of HAP. Since the compressor engines are subject to 40 CFR Part 60 Subpart JJJJ, they automatically satisfy the requirements of Subpart ZZZZ by complying with NSPS Subpart JJJJ. There are no further requirements under Subpart ZZZZ for these engines.

## State Regulatory Applicability

Applicability of regulations within Article 15 - Air Pollution Control Rules under the North Dakota Administrative Code were evaluated for the facility.

### 33.1-15-03 Restriction of Emission of Visible Air Contaminants

The facility will operate in a manner to not discharge into the ambient air from any single source of emission whatsoever any air contaminant which exhibits an opacity greater than twenty percent except that a maximum of forty percent opacity which is permissible for not more than one six-minute period per hour (33.1-15-03-02). Additionally, the facility will not discharge into the ambient air from any source of fugitive emissions any air contaminant which exhibits an opacity greater than forty percent for more than one six-minute period per hour (33.1-15-03-03).

### 33.1-15-05 Emissions of Particulate Matter Restricted

The facility is an insignificant source of particulate matter emissions and does not fall within the source categorizations listed in this subpart.

### 33.1-15-06 Emissions of Sulfur Compounds Restricted

The facility combusts pipeline quality natural gas and is therefore exempt from this subpart (33.1-15-06-01.e).

### 33.1-15-07 Control of Organic Compounds Emissions

Storage tanks at the facility will be equipped with submerged fill pipes (33.1-15-07-01.2). Any loading of volatile organic compounds will not exceed 20,000 gallons per day (33.1-15-07-01.4). With the exception of emergency vapor blowdowns or safety relief valves, emissions of organic compounds will be routed to flare or an equally effective control device (33.1-15-07-02.1). Any flares located at the facility will be equipped with an automatic igniter or a continuous burning pilot (33.1-15-07-02.3). The storage tanks at the facility will be

ONEOK Rockies Midstream, L.L.C.  
Antelope Compressor Station  
November 2025

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controlled and therefore meets the requirements of the May 27, 2015 NDDH guidance memorandum for storage vessels at oil and gas non-production facilities.

### **33.1-15-08 Control of Air Pollution From Vehicles and Other Internal Combustion Engines**

Any internal combustion engines located at the facility will not emit any unreasonable and excessive smoke, obnoxious or noxious gases, fumes or vapor (33.1-15-08-01). The facility will not intentionally remove, alter, or otherwise render inoperative, exhaust emission control, crankcase ventilation, or any other air pollution control device which has been installed as a requirement of federal law or regulation (33.1-15-08-02.1).

### **33.1-15-11 Prevention of Air Pollution Emergency Episodes**

The facility is not a source category listed in Table 7 of this subpart. The facility will comply with any requirements that are instituted during an air pollution emergency issued by the Department.

### **33.1-15-12 Standards of Performance for New Stationary Sources**

### **33.1-15-13 Emission Standards for Hazardous Air Pollutants**

### **33.1-15-22 Emission Standards for Hazardous Air Pollutants for Source Categories**

NSPS and NESHAP applicability is addressed above in the Federal Requirements.

### **33.1-15-14 Designated Air Contaminant Sources, Permit to Construct, Minor Source Permit to Operate, Title V Permit to Operate**

Through submittal of this application for a permit, the facility is complying with this subpart.

### **33.1-15-15 Prevention of Significant Deterioration of Air Quality**

The facility is a minor source of emissions and is therefore not subject to this subpart.

### **33.1-15-16 Restriction of Odorous Air Contaminants**

The facility will comply with the general provisions of the Department's odor restrictions (33.1.15-16-01) and will not exceed the maximum hydrogen sulfide concentrations to be considered a violation (33.1-15-16-02.1).

### **33.1-15-17 Restriction of Fugitive Emissions**

The facility will take reasonable precautions to prevent fugitive emissions as defined under 33.1-15-17-01.2 in regards to ambient air quality standards and opacity limitations.

### **33.1-15-18 Stack Heights**

Stack heights at the facility will not exceed good engineering practice (GEP) stack heights as defined under 33.1-15-18-01.2.d.

### **33.1-15-19 Visibility Protection**

The visibility protection standards are only applicable to major sources and therefore not applicable to the facility.

### **33.1-15-21 Acid Rain Program**

The acid rain provisions of the Air Pollution Control Rules are not applicable to the facility.

### **33.1-15-24 Standards for Lead-Based Paint Activities**

There will be no lead-based paint utilized at the facility and therefore not applicable to the facility.

### **33.1-15-25 Regional Haze Requirements**

The facility is currently not subject to regulation under a regional haze program. Therefore, this subpart is not applicable.

ONEOK Rockies Midstream, L.L.C.  
Antelope Compressor Station  
November 2025

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## **Application Forms**

Form SFN 52858 – Permit Application for Title V Permit to Operate

Form SFN 61006 – Emission Unit for Title V Permit to Operate

Form SFN 61008 – Compliance Schedule and Plan for Title V Permit to Operate



**PERMIT APPLICATION FOR TITLE V PERMIT TO OPERATE**  
 NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY  
 DIVISION OF AIR QUALITY  
 SFN 52858 (9-2021)

**SECTION A - FACILITY INFORMATION**

Name of Firm or Organization ONEOK Rockies Midstream, L.L.C. - Antelope Compressor Station				
Responsible Person Dick Vande Bossche				
Title Vice President - Rockies Midstream Operations		Telephone Number (406) 433-8710		E-mail Address dick.vandebossche@oneok.com
Mailing Address (Street & Number) P.O. BOX 871				
City Tulsa		State OK		ZIP Code 74102
Contact Person for Air Pollution Matters Jeremy Chrobak				
Title Environmental Professional II		Telephone Number (918) 800-3917		E-mail Address jeremy.chrobak@oneok.com
Mailing Address (Street & Number) 100 W Fifth St				
City Tulsa		State OK		ZIP Code 74103
Facility Name Antelope Compressor Station				
Facility Address (Street & Number) County Road 6				
City New Town		State ND		ZIP Code 58763
County McKenzie County		Latitude (decimal degrees) 48.002889		Longitude (decimal degrees) -102.661667
Legal Description of Facility Site				
Quarter SW	Quarter NW	Section 12	Township 152N	Range 94W
Land Area at Facility Site 8 Acres (or) _____ Sq. Ft.		MSL Elevation at Facility 1,950		

**SECTION B – GENERAL NATURE OF BUSINESS**

Describe Nature of Business	North American Industry Classification System Code (NAICS)	Standard Industrial Classification Code (SIC)
Natural Gas Compression	211130	1311

**SECTION C – GENERAL PERMIT INFORMATION**

Type of Permit to Operate? <input type="checkbox"/> Initial <input type="checkbox"/> Minor Modification <input checked="" type="checkbox"/> Significant Modification	
If application is for renewal or revision of an existing Title V permit, please provide the following data:	
Current Permit to Operate Number: <u>AOP-28518 V1.0</u> Renewal: _____   Revision: _____	Current Permit to Operate Expiration Date: <b>03/15/2028</b>



		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Add additional pages if necessary

**SECTION F1 – IDENTIFICATION OF AIR CONTAMINANTS**

Check all which are emitted in measurable quantities into the atmosphere from any operation at facility

<input type="checkbox"/> Arsenic	<input type="checkbox"/> Chlorine Compounds	<input type="checkbox"/> Sulfur Compounds	<input type="checkbox"/> Radioisotopes
<input type="checkbox"/> Asbestos	<input type="checkbox"/> Chromium Compounds	<input type="checkbox"/> Hydrogen Sulfide	<input type="checkbox"/> Visible Emissions
<input type="checkbox"/> Beryllium	<input type="checkbox"/> Fluoride Compounds	<input type="checkbox"/> Odors	<input type="checkbox"/> Particulates (specify)
<input type="checkbox"/> Cadmium	<input checked="" type="checkbox"/> Volatile Organic Compounds	<input checked="" type="checkbox"/> Carbon Monoxide	<input type="checkbox"/> Dust
<input type="checkbox"/> Lead	<input type="checkbox"/> Other Organic Compounds	<input checked="" type="checkbox"/> Nitrogen Compounds	<input type="checkbox"/> Silica
<input type="checkbox"/> Mercury	<input type="checkbox"/> Greenhouse Gases (CO <sub>2</sub> e)	<input type="checkbox"/> Pesticides	<input checked="" type="checkbox"/> Other (specify)

List Specific Compounds:

Formaldehyde

**SECTION F2 – IDENTIFICATION OF AIR CONTAMINANTS**

Has emission unit testing been done at the facility?  Yes  No

Emission Unit No.	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)
N/A			

Add additional pages if necessary

**SECTION G1 – ADDITIONAL FORMS**

Indicate which of the following forms are attached and made part of the application			
<input checked="" type="checkbox"/>	Emission Unit Information (SFN 61006)	<input type="checkbox"/>	Flexible Permits (SFN 61007)
<input checked="" type="checkbox"/>	Compliance Schedule and Plan (SFN 61008)	<input type="checkbox"/>	Potential To Emit Table

**SECTION G2 – OTHER ATTACHMENTS INCLUDED AS PART OF THIS APPLICATION**

1.	Process Description and Regulatory Applicability	4.	Redlined Title V Operating Permit
2.	Process Flow Diagram	5.	
3.	Emission Tables	6.	

I, the undersigned applicant, am fully aware that statements made in this application and the attached exhibits and statements constitute the application for Permit to Operate Air Contaminant sources from the North Dakota Department of Environmental Quality and certify that the information in this application is true, correct and complete to the best of my knowledge and belief. 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 the permit is nontransferable and, if granted a permit, I will promptly notify the Department upon sale or legal transfer of this permitted establishment.

Signature of Applicant	DocuSigned by: <i>Dick Vande Bossche</i> <small>67B797C4193640F...</small>	Date 11/24/2025
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**EMISSION UNIT FOR TITLE V PERMIT TO OPERATE**  
 NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY  
 DIVISION OF AIR QUALITY  
 SFN 61006 (3-2019)

**SECTION A – EQUIPMENT INFORMATION**

Type of Unit or Process (rotary dryer, cupola furnace, crusher, pelletizer, engine, etc.) <b>Low Pressure (LP) Flare</b>	Emission Unit Number: <b>FL-2</b>	Emission Point Number: <b>FL-2</b>
Make <b>-</b>	Model <b>-</b>	Installation or manufacture date <b>01/06/2025</b>
Capacity (manufacturer's or designer's guaranteed maximum)	Operating Capacity (specific units) <b>40.91 LB/HR</b>	
Brief description of operation of unit or process: <b>The flare system is used for safety, maintenance, upsets, process, and low pressure flaring as needed for the station.</b>		
Brief description of alternative operating scenario (see Section M1 & M2 to elaborate): <b>None</b>	Alternative Emission Point: <b>None</b>	

**SECTION B – OPERATING SCHEDULE**

Are you agreeing to a limit on the operating schedule for this unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Hours Per Day <b>24</b>	Days Per Week <b>7</b>	Weeks Per Year <b>52</b>	Peak Production Season (if any) <b>N/A</b>	Dates of Annual Shutdown <b>N/A</b>

**SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)**

Are you agreeing to a limit on the production for this unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If No, show normal operating schedule.)				
Material	Process Time Frame			Specify Units (tons, Btu, Gal., etc)
	Hour	Week	Year	
<b>Natural Gas (Flared)</b>	<b>0.022</b>	<b>3.696</b>	<b>192.72</b>	<b>Mscf</b>

**SECTION D1 – APPLICABLE REQUIREMENTS**

Generally describe all applicable requirements.					
Regulations (i.e. SIP, NESHAP, PSD, NSPS, etc)	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements	Testing Requirements	Applicable Emission Standards (include units)
33.1-15-03 (Opacity)	Periodic Observations	Presence of Visible Emissions	With Each Semi-Annual Report	-	20%

**SECTION D2 – IDENTIFICATION OF AIR CONTAMINANTS**

Has emission unit testing been done at the facility? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Emission Unit ID	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)
N/A			

Add additional pages if necessary

**SECTION E – PRODUCTS OF UNIT OR PROCESS**

Include all, even those not usable because they do not meet specifications					
Material	Hourly Process Weight (Pounds Per Hour)			Average Annual (Specify Units)	Intermittent Operation Only (Average Hours Per Week)
	Average	Maximum	Minimum		
N/A					

**SECTION F – FUELS USED**

Coal (Tons/Yr)	% Sulfur	% Ash	Oil (Gal/Yr)	% Sulfur	Grade No.
Natural Gas (Thousand CF/Yr) Pilot - 192.72		LP Gas (Gal/Yr)		Other (Specify)	

**SECTION G – STACK PARAMETERS**

List each pollutant separately.					
Pollutant (use CAS for HAPs)	Stack Height (ft)	Stack Diameter (ft at top)	Gas Volume (ACFM)	Exit Temp (°F)	Gas Velocity (fps)
All, See Section I.	20	4		1000-1300	
Stack Base UTM Coordinate X: <b>674472.63</b>			Stack Base UTM Coordinate Y: <b>5319295.62</b>		

**SECTION H – ALTERNATIVE STACK PARAMETERS**

List each pollutant separately.					
Pollutant (use CAS for HAPs)	Stack Height (ft)	Stack Diameter (ft at top)	Gas Volume (ACFM)	Exit Temp (°F)	Gas Velocity (fps)
N/A					
Stack Base UTM Coordinate X:			Stack Base UTM Coordinate Y:		

**SECTION I – AIR CONTAMINANTS EMITTED**

Known or Suspected - Use emission rates after control equipment.			
Pollutant (use CAS for HAPs)	Amount		Basis of Estimate (AP-42, testing, engineering estimate, etc)
	Pounds/Hr	Tons/Yr	
NOx	0.17	0.06	AP-42
CO	0.77	0.24	AP-42
PM	<0.01	<0.01	AP-42
PM10	<0.01	<0.01	AP-42
PM2.5	<0.01	<0.01	AP-42
SO2	<0.01	<0.01	AP-42 & Stoichiometric
VOC	0.82	0.25	AP-42 & Mass Balance
GHG (as CO2e)	318.55	106.35	40 CFR 98
Total HAPs	0.02	<0.01	AP-42 & Mass Balance

**SECTION J1 – AIR POLLUTION CONTROL EQUIPMENT**

Type: <input type="checkbox"/> Cyclone <input type="checkbox"/> Multiclone <input type="checkbox"/> Baghouse <input type="checkbox"/> Electrostatic Precipitator <input type="checkbox"/> Wet Scrubber <input type="checkbox"/> Spray Dryer <input checked="" type="checkbox"/> None <input type="checkbox"/> Other – Specify: _____			
Name of Manufacturer		Model Number	Date to Be Installed
Application: <input type="checkbox"/> Boiler <input type="checkbox"/> Kiln <input type="checkbox"/> Engine <input type="checkbox"/> Other – Specify: _____			
Pollutants Removed			
Design Efficiency (%)			

Operating Efficiency (%)			
Describe method used to determine operating efficiency:			

**SECTION J2 – GAS CONDITIONS**

Gas Conditions	Inlet		Outlet	
Gas Volume (SCFM; 68°F; 14.7 psia)	n/a		n/a	
Gas Temperature (°F)				
Gas Pressure (in. H <sub>2</sub> O)				
Gas Velocity (ft/sec)				
Pollutant Concentration (Specify pollutant and unit of concentration)	Pollutant	Unit of Concentration	Inlet	Outlet
Pressure drop through gas cleaning device (in. H <sub>2</sub> O)				



**COMPLIANCE SCHEDULE AND PLAN FOR TITLE V PERMIT TO OPERATE**  
 NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY  
 DIVISION OF AIR QUALITY  
 SFN 61008 (3-2019)

**SECTION A1 – COMPLIANCE SCHEDULE AND PLAN**

Will your facility be in compliance with all applicable requirements effective at the time of permit issuance?  Yes  No

If No, identify applicable requirement for which compliance is not achieved:

If No, provide a narrative description of how compliance will be achieved with this applicable requirement:

If No, provide a detailed schedule of compliance:

Regulation/Condition not in compliance with	Action	Date Expected
Frequency for submittal of progress reports (6-month minimum):	Starting Date of Progress Reports	

**SECTION A2 – COMPLIANCE SCHEDULE AND PLAN**

Will your facility be in compliance with all applicable requirements effective after the time of permit issuance?  Yes  No

If No, identify applicable requirement for which compliance will not be compiled with:

If No, provide a detailed schedule leading to compliance:

Regulation/Condition not in compliance with	Action	Date Expected

**SECTION A3 – COMPLIANCE CERTIFICATION (METHOD OF COMPLIANCE)**

Compliance Method Type <input checked="" type="checkbox"/> Monitoring <input checked="" type="checkbox"/> Recordkeeping	Compliance Method is Based On: <input type="checkbox"/> Compliance Assurance Monitoring (CAM) <input checked="" type="checkbox"/> Applicable Requirement <input type="checkbox"/> Gap-Filling Requirement
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**SECTION A4 –METHOD OF COMPLIANCE REFERENCE TEST METHOD**

Reference Test Method:  
**Method 9 for Opacity**

Reference Test Method Citation:  
**NDAC 33.1-15-03-05**

**SECTION A5 –METHOD OF COMPLIANCE MONITORING**

Monitoring Device Type: <input type="checkbox"/> Stack Test <input checked="" type="checkbox"/> Parameter Monitoring <input type="checkbox"/> CEM <input type="checkbox"/> Ambient Monitoring	Monitor Location Description: <b>Stack Outlet</b>
Regulated Air Pollutant(s) Monitored:	Monitoring frequency and duration of sampling: (Example: every 15 min, 1 min instantaneous readings are taken to produce an hourly average.)
<b>Opacity/Visible Emissions</b>	Per Method 9, periodic observations for 60 minute periods
<b>Presence of Pilot Flame</b>	<b>Continuous</b>

**SECTION B1 –METHOD OF COMPLIANCE RECORDKEEPING**

Data (Parameter) Being Recorded	Frequency of Reporting (6 mo, quarterly, etc.)
<b>Presence of Visible Emissions</b>	Per Method 9, with each Semi-Annual Monitoring Report
<b>Periods of Pilot Outages</b>	<b>With each Semi-Annual Monitoring Report</b>

**SECTION B2 –METHOD OF COMPLIANCE REPORTING**

Data (Parameter) Being Recorded	Beginning Date (month/day/year)	Frequency of Reporting (6 mo, quarterly, etc.)
<b>Presence of Visible Emissions</b>	<b>Upon Startup</b>	With Each Semi-Annual Monitoring Report
<b>Frequency of Visible Emissions</b>	<b>Upon Startup</b>	With each Semi-annual Monitoring Report
<b>Periods of Pilot Outages</b>	<b>Upon Startup</b>	With Each Semi-Annual Monitoring Report

**SECTION B3 –COMPLIANCE CERTIFICATION**

Certification Parameter	Beginning Date (month/day/year)	Frequency of Submittal (6 mo, quarterly, etc.)
<b>All Applicable Requirements</b>	With this Submittal and 45-Days after 12/31 of the year permit issued	<b>Annual</b>

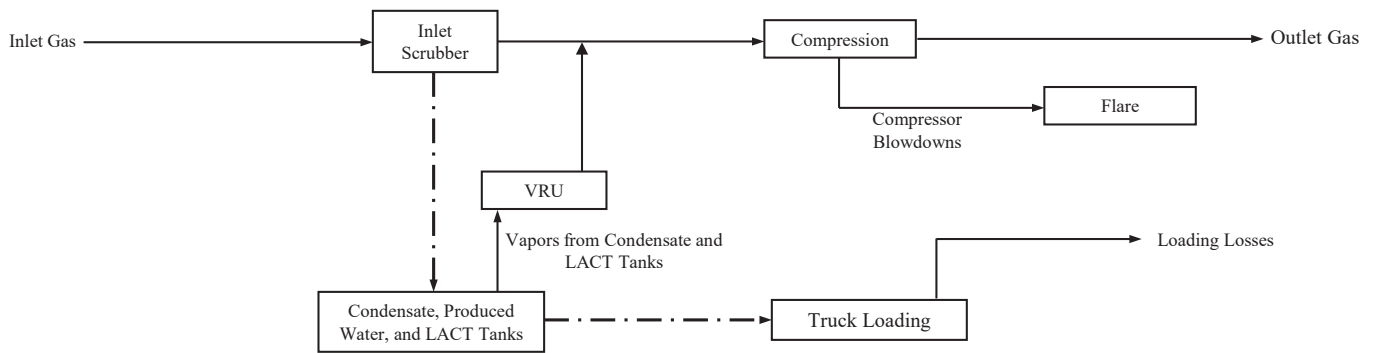
The air contaminant source identified in this application is in compliance with applicable monitoring and compliance certification requirements?  Yes     Not Applicable     No--Describe Below:

ONEOK Rockies Midstream, L.L.C.  
Antelope Compressor Station  
November 2025

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## **Appendix A - Maps and Drawings**

Figure 1 – Process Flow Diagram



—————→ Gas/Vapor  
- - - - -→ Condensate/Water

**ORM Antelope Compressor Station**

Figure 1: Process Flow Diagram  
McKenzie County, North Dakota

ONEOK Rockies Midstream, L.L.C.  
Antelope Compressor Station  
November 2025

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## **Appendix B – Emissions Calculations**

**ONEOK Rockies Midstream, L.L.C.  
Antelope Compressor Station  
Facility Emissions Summary - Annual**

Unit ID	Description	NOx	CO	VOC	SO <sub>2</sub>	PM	HCHO	HAP	CO <sub>2e</sub>
		TPY	TPY	TPY	TPY	TPY	TPY	TPY	TPY
C-1	2,370-hp Caterpillar G3608 LE Engine	16.02	14.30	16.02	0.04	0.68	1.37	1.80	10,155.38
C-2	2,370-hp Caterpillar G3608 LE Engine	16.02	14.30	16.02	0.04	0.68	1.37	1.80	10,155.38
C-3	2,370-hp Caterpillar G3608 LE Engine	16.02	14.30	16.02	0.04	0.68	1.37	1.80	10,155.38
C-4	2,370-hp Caterpillar G3608 LE Engine	16.02	14.30	16.02	0.04	0.68	1.37	1.80	10,155.38
C-5	2,370-hp Caterpillar G3608 LE Engine	16.02	14.30	16.02	0.04	0.68	1.37	1.80	10,155.38
C-6	2,370-hp Caterpillar G3608 LE Engine	16.02	14.30	16.02	0.04	0.68	1.37	1.80	10,155.38
<b>FL-1</b>	<b>Process Flare - Remove</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>FL-2</b>	<b>Process Flare</b>	<b>0.06</b>	<b>0.24</b>	<b>0.25</b>	<b>&lt;0.01</b>	<b>&lt;0.01</b>	<b>&lt;0.01</b>	<b>&lt;0.01</b>	<b>106.35</b>
TK-1	400-bbl Condensate Tank	--	--	3.10	--	--	--	0.14	3.16
TK-2	400-bbl Condensate Tank	--	--	3.10	--	--	--	0.14	3.16
TK-3	400-bbl Condensate Tank	--	--	3.10	--	--	--	0.14	3.16
TK-4	400-bbl Condensate Tank	--	--	3.10	--	--	--	0.14	3.16
TK-5	400-bbl Condensate Tank	--	--	3.10	--	--	--	0.14	3.16
TK-6	400-bbl Condensate Tank	--	--	3.10	--	--	--	0.14	3.16
TK-7	400-bbl Condensate Tank	--	--	3.10	--	--	--	0.14	3.16
TK-8	400-bbl Condensate Tank	--	--	3.10	--	--	--	0.14	3.16
TK-9	400-bbl Condensate Tank	--	--	3.10	--	--	--	0.14	3.16
TK-10	400-bbl Condensate Tank	--	--	3.10	--	--	--	0.14	3.16
WTK-1	400-bbl Produced Water Tank	--	--	0.85	--	--	--	0.04	0.88
WTK-2	400-bbl Produced Water Tank	--	--	0.85	--	--	--	0.04	0.88
LTK-1	400-bbl LACT Divert Tank	--	--	0.39	--	--	--	0.02	0.00
TL-1	Condensate Truck Loading	--	--	15.70	--	--	--	3.86	9.75
MTK-1	400-bbl Methanol Tank	--	--	0.34	--	--	--	0.34	--
FUG	Fugitive Emissions	--	--	11.03	--	--	--	1.19	210.26
BD	Miscellaneous Venting and Blowdowns to Atmosphere	--	--	9.19	--	--	--	0.18	287.03
<b>Total =</b>		<b>96.18</b>	<b>86.06</b>	<b>165.68</b>	<b>0.24</b>	<b>4.11</b>	<b>8.25</b>	<b>17.89</b>	<b>61,579.07</b>

Notes:

1) Miscellaneous venting and blowdowns to atmosphere include, but are not limited to, miscellaneous planned and unplanned venting to atmosphere from pressure relief valves, startup, shut-down, maintenance, compressor blowdowns, pigging actions, and/or pneumatic controllers.

**ONEOK Rockies Midstream, L.L.C.  
Antelope Compressor Station  
Facility Emissions Summary - Hourly**

Unit ID	Description	NOx	CO	VOC	SO <sub>2</sub>	PM	HCHO	HAP	CO <sub>2</sub> e
		lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
C-1	2,370-hp Caterpillar G3608 LE Engine	3.66	3.27	3.66	0.01	0.16	0.31	0.41	2,318.58
C-2	2,370-hp Caterpillar G3608 LE Engine	3.66	3.27	3.66	0.01	0.16	0.31	0.41	2,318.58
C-3	2,370-hp Caterpillar G3608 LE Engine	3.66	3.27	3.66	0.01	0.16	0.31	0.41	2,318.58
C-4	2,370-hp Caterpillar G3608 LE Engine	3.66	3.27	3.66	0.01	0.16	0.31	0.41	2,318.58
C-5	2,370-hp Caterpillar G3608 LE Engine	3.66	3.27	3.66	0.01	0.16	0.31	0.41	2,318.58
C-6	2,370-hp Caterpillar G3608 LE Engine	3.66	3.27	3.66	0.01	0.16	0.31	0.41	2,318.58
<b>FL-1</b>	<b>Process Flare - Remove</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>FL-2</b>	<b>Process Flare</b>	<b>0.17</b>	<b>0.77</b>	<b>0.82</b>	<b>&lt;0.01</b>	<b>&lt;0.01</b>	<b>&lt;0.01</b>	<b>0.02</b>	<b>318.55</b>
TK-1	400-bbl Condensate Tank	--	--	0.71	--	--	--	0.03	0.72
TK-2	400-bbl Condensate Tank	--	--	0.71	--	--	--	0.03	0.72
TK-3	400-bbl Condensate Tank	--	--	0.71	--	--	--	0.03	0.72
TK-4	400-bbl Condensate Tank	--	--	0.71	--	--	--	0.03	0.72
TK-5	400-bbl Condensate Tank	--	--	0.71	--	--	--	0.03	0.72
TK-6	400-bbl Condensate Tank	--	--	0.71	--	--	--	0.03	0.72
TK-7	400-bbl Condensate Tank	--	--	0.71	--	--	--	0.03	0.72
TK-8	400-bbl Condensate Tank	--	--	0.71	--	--	--	0.03	0.72
TK-9	400-bbl Condensate Tank	--	--	0.71	--	--	--	0.03	0.72
TK-10	400-bbl Condensate Tank	--	--	0.71	--	--	--	0.03	0.72
WTK-1	400-bbl Produced Water Tank	--	--	0.19	--	--	--	0.01	0.20
WTK-2	400-bbl Produced Water Tank	--	--	0.19	--	--	--	0.01	0.20
LTK-1	400-bbl LACT Divert Tank	--	--	0.09	--	--	--	<0.01	0.00
TL-1	Condensate Truck Loading	--	--	3.58	--	--	--	0.88	2.23
MTK-1	400-bbl Methanol Tank	--	--	0.08	--	--	--	0.08	--
FUG	Fugitive Emissions	--	--	2.52	--	--	--	0.27	48.00
BD	Miscellaneous Venting and Blowdowns to Atmosphere	--	--	--	--	--	--	--	--
<b>Total =</b>		<b>22.11</b>	<b>20.36</b>	<b>36.49</b>	<b>0.06</b>	<b>0.94</b>	<b>1.88</b>	<b>4.06</b>	<b>14,287.89</b>

**ONEOK Rockies Midstream, L.L.C.**  
**Antelope Compressor Station**  
**Facility Analyses**

Component	Molecular Weight	Stream 1				Stream 2				Stream 3			
		Inlet Gas				Condensate				Flash Gas			
		Mole %	Equiv. Wt. Basis	Weight %	HC Weight %	Mole %	Equiv. Wt. Basis	Weight %	HC Weight %	Mole %	Equiv. Wt. Basis	Weight %	HC Weight %
Hydrogen Sulfide	34.081	0.0000%	0.00	0.00%	-	0.0000%	0.00	0.00%	-	0.0000%	0.00	0.00%	-
Carbon Dioxide	44.010	0.8424%	0.37	1.50%	-	0.0053%	0.00	0.00%	-	0.3255%	0.14	0.32%	-
Nitrogen	28.013	1.6861%	0.47	1.91%	-	0.0006%	0.00	0.00%	-	0.4072%	0.11	0.25%	-
Helium	4.003	0.0000%	0.00	0.00%	-	0.0000%	0.00	0.00%	-	0.0000%	0.00	0.00%	-
Oxygen	31.999	0.0000%	0.00	0.00%	-	0.0000%	0.00	0.00%	-	0.0000%	0.00	0.00%	-
Methane	16.043	63.7967%	10.23	41.30%	42.76%	0.0564%	0.01	0.01%	0.01%	10.3520%	1.66	3.69%	3.71%
Ethane	30.069	18.2815%	5.50	22.18%	22.97%	0.9833%	0.30	0.35%	0.35%	24.8110%	7.46	16.57%	16.67%
Propane	44.096	8.7139%	3.84	15.51%	16.05%	4.3177%	1.90	2.27%	2.27%	28.8160%	12.71	28.23%	28.39%
i-Butane	58.122	1.1296%	0.66	2.65%	2.74%	1.9033%	1.11	1.32%	1.32%	4.5604%	2.65	5.89%	5.92%
n-Butane	58.122	3.1436%	1.83	7.37%	7.63%	11.0610%	6.43	7.68%	7.68%	17.0440%	9.91	22.01%	22.13%
i-Pentane	72.149	0.6622%	0.48	1.93%	2.00%	7.0642%	5.10	6.09%	6.09%	4.1626%	3.00	6.67%	6.71%
n-Pentane	72.149	0.9649%	0.70	2.81%	2.91%	15.0470%	10.86	12.96%	12.96%	6.3699%	4.60	10.21%	10.27%
n-Hexane	86.175	0.1473%	0.13	0.51%	0.53%	20.7780%	17.91	21.38%	21.38%	2.2700%	1.96	4.35%	4.37%
Other Hexanes	86.175	0.4096%	0.35	1.42%	1.47%	0.0000%	0.00	0.00%	0.00%	0.0000%	0.00	0.00%	0.00%
Heptanes	100.202	0.0772%	0.08	0.31%	0.32%	18.5560%	18.59	22.20%	22.20%	0.5766%	0.58	1.28%	1.29%
Benzene	78.114	0.0158%	0.01	0.05%	0.05%	0.9781%	0.76	0.91%	0.91%	0.1123%	0.09	0.19%	0.20%
Toluene	92.141	0.0122%	0.01	0.05%	0.05%	1.0152%	0.94	1.12%	1.12%	0.0291%	0.03	0.06%	0.06%
Ethylbenzene	106.167	0.0008%	0.00	0.00%	0.00%	0.2036%	0.22	0.26%	0.26%	0.0017%	0.00	0.00%	0.00%
Xylenes	106.167	0.0035%	0.00	0.02%	0.02%	0.7206%	0.77	0.91%	0.91%	0.0045%	0.00	0.01%	0.01%
Octanes	114.229	0.0956%	0.11	0.44%	0.46%	11.1660%	12.75	15.23%	15.23%	0.0965%	0.11	0.24%	0.25%
2,2,4-Trimethylpentane	114.231	0.0079%	0.01	0.04%	0.04%	0.0000%	0.00	0.00%	0.00%	0.0000%	0.00	0.00%	0.00%
Nonanes	128.255	0.0000%	0.00	0.00%	0.00%	2.8977%	3.72	4.44%	4.44%	0.0069%	0.01	0.02%	0.02%
Decanes	142.282	0.0000%	0.00	0.00%	0.00%	1.6903%	2.40	2.87%	2.87%	0.0013%	0.00	0.00%	0.00%
<b>Totals =</b>		<b>99.9908%</b>	<b>24.78</b>	<b>100.00%</b>	<b>100.00%</b>	<b>98.4444%</b>	<b>83.76</b>	<b>100.00%</b>	<b>100.00%</b>	<b>99.9475%</b>	<b>45.02</b>	<b>100.00%</b>	<b>100.00%</b>
<b>Total HC =</b>			<b>23.94</b>	<b>Total VOC =</b>	<b>34.27%</b>	<b>Total HC =</b>	<b>83.75</b>	<b>Total VOC =</b>	<b>99.64%</b>	<b>Total HC =</b>	<b>44.76</b>	<b>Total VOC =</b>	<b>79.62%</b>
				<b>Total HAP =</b>	<b>0.69%</b>			<b>Total HAP =</b>	<b>24.58%</b>			<b>Total HAP =</b>	<b>4.64%</b>

Notes:

1) Representative inlet gas analysis with C6+ estimated per GLYCalc. Condensate and flash gas compositions calculated with site-specific ProMax process simulation.

**ONEOK Rockies Midstream, L.L.C.  
Antelope Compressor Station  
Estimated Extended Gas Analysis**

Component	Production	
	GRI Fraction	Estimated Mole %
Other Hexanes	0.5319	0.4096
n-Hexane	0.1913	0.1473
Heptane	0.1002	0.0772
2,2,4-Trimethylpentane	0.0103	0.0079
Octanes+	0.1241	0.0956
Benzene	0.0205	0.0158
Toluene	0.0159	0.0122
Ethylbenzene	0.0011	0.0008
Xylenes	0.0046	0.0035
<b>Total=</b>		0.7699

C6+ Value From Gas Analysis = 0.77 mole %

**ONEOK Rockies Midstream, L.L.C.  
Antelope Compressor Station  
Flare Information and Emission Factors**

Equipment Information	
FL-2	
Description	Process Flare
VOC to Flare (lb/hr)	40.91
Stream Heat Content (Btu/scf)	1,302
Stream Net Btu Value (Btu/hr)	2,464,090
Operating Hours	600
Control Efficiency	98%
Pilot Stream Heat Content (Btu/scf)	1,026
Pilot Gas Flow Rate (scfh)	22.00
Pilot Gas Capacity (mmBtu/hr)	0.023
Pilot Operating Hours	8,760

AP-42/EPA Emission Factors			
	Flare Stream		Pilot Gas
NOx (lb/mmBtu)	0.068	NOx (lb/mmscf)	100.0
CO (lb/mmBtu)	0.31	CO (lb/mmscf)	84.0
VOC	Mass Balance	VOC (lb/mmscf)	5.5
SO <sub>2</sub>	Stoichiometric	SO <sub>2</sub> (lb/mmscf)	0.6
PM <sub>10/2.5</sub>	--	PM <sub>10/2.5</sub> (lb/mmscf)	1.9
PM <sub>COND</sub>	--	PM <sub>COND</sub> (lb/mmscf)	5.7
PM <sub>TOT</sub>	--	PM <sub>TOT</sub> (lb/mmscf)	7.6
Formaldehyde	--	Formaldehyde (lb/mmscf)	7.50E-02
n-Hexane	Mass Balance	n-Hexane (lb/mmscf)	1.80E+00
Benzene	Mass Balance	Benzene (lb/mmscf)	2.10E-03
Toluene	Mass Balance	Toluene (lb/mmscf)	3.40E-03
Ethylbenzene	Mass Balance	Ethylbenzene	--
Xylenes	Mass Balance	Xylenes	--
Other HAP	Mass Balance	Other HAP (lb/mmscf)	1.90E-03
Carbon Dioxide (CO <sub>2</sub> ) (kg/mmBtu)	53.06/Mass Balance	Carbon Dioxide (CO <sub>2</sub> ) (kg/mmBtu)	53.06
Methane (CH <sub>4</sub> ) (kg/mmBtu)	0.001/Mass Balance	Methane (CH <sub>4</sub> ) (kg/mmBtu)	1.00E-03
Nitrous Oxide (N <sub>2</sub> O) (kg/mmBtu)	1.00E-04	Nitrous Oxide (N <sub>2</sub> O) (kg/mmBtu)	1.00E-04

Notes:

1) NOx and CO emission factors (lb/mmBtu), flare stream: AP-42, Table 13.5-1 and 13.5-2 (2/2018). Pilot criteria and HAP emission factors (lb/mmscf): AP-42, Table 1.4-1, -2 (7/98). GHG emission factors (kg/mmBtu): 40 CFR 98.

ONEOK Rockies Midstream, L.L.C.  
Antelope Compressor Station  
Flare Emissions Calculations

Unit ID: FL-2

Total: Stream + Pilot

Pollutant	Hourly Emissions	Annual Emissions
NOx	0.17 lb/hr	0.06 TPY
CO	0.77 lb/hr	0.24 TPY
VOC	0.82 lb/hr	0.25 TPY
SO <sub>2</sub>	<0.01 lb/hr	<0.01 TPY
PM <sub>10.2.5</sub>	<0.01 lb/hr	<0.01 TPY
PM <sub>2.5</sub>	<0.01 lb/hr	<0.01 TPY
PM <sub>10T</sub>	<0.01 lb/hr	<0.01 TPY
Formaldehyde	<0.01 lb/hr	<0.01 TPY
n-Hexane	0.01 lb/hr	<0.01 TPY
Benzene	<0.01 lb/hr	<0.01 TPY
Toluene	<0.01 lb/hr	<0.01 TPY
Ethylbenzene	<0.01 lb/hr	<0.01 TPY
Xylenes	<0.01 lb/hr	<0.01 TPY
Other HAP	<0.01 lb/hr	<0.01 TPY
CO <sub>2</sub>	292.73 lb/hr	98.59 TPY
CH <sub>4</sub>	1.03 lb/hr	0.31 TPY
N <sub>2</sub> O	<0.01 lb/hr	<0.01 TPY

Stream Emissions

Pollutant	Emission Factor	Capacity	Conversion	Hourly Emissions	Operating Hours	Conversion	Annual Emissions
NOx	6.80E-02 lb/mmBtu	X 2.46E+00 mmBtu/hr	X - - =	0.17 lb/hr	X 600 X	0.0005 ton/lb	= 0.05 TPY
CO	3.10E-01 lb/mmBtu	X 2.46E+00 mmBtu/hr	X - - =	0.76 lb/hr	X 600 X	0.0005 ton/lb	= 0.23 TPY
VOC	- - -	- - -	- - - =	0.82 lb/hr	X 600 X	0.0005 ton/lb	= 0.25 TPY
SO <sub>2</sub>	- - -	- - -	- - - =	0.00 lb/hr	X 600 X	0.0005 ton/lb	= 0.00 TPY
n-Hexane	- - -	- - -	- - - =	0.01 lb/hr	X 600 X	0.0005 ton/lb	= <0.01 TPY
Benzene	- - -	- - -	- - - =	<0.01 lb/hr	X 600 X	0.0005 ton/lb	= <0.01 TPY
Toluene	- - -	- - -	- - - =	<0.01 lb/hr	X 600 X	0.0005 ton/lb	= <0.01 TPY
Ethylbenzene	- - -	- - -	- - - =	<0.01 lb/hr	X 600 X	0.0005 ton/lb	= <0.01 TPY
Xylenes	- - -	- - -	- - - =	<0.01 lb/hr	X 600 X	0.0005 ton/lb	= <0.01 TPY
Other HAP	- - -	- - -	- - - =	<0.01 lb/hr	X 600 X	0.0005 ton/lb	= <0.01 TPY
CO <sub>2</sub>	5.31E+01 kg/mmBtu	X 2.46E+00 mmBtu/hr	X 2.20462 lb/kg	= 288.24 lb/hr	X 600 X	0.0005 ton/lb	= 86.47 TPY
CH <sub>4</sub>	- - -	- - -	- - - =	1.85 lb/hr	X 600 X	0.0005 ton/lb	= 0.55 TPY
CO <sub>2</sub>	1.00E-03 kg/mmBtu	X 2.46E+00 mmBtu/hr	X 2.20462 lb/kg	= 0.01 lb/hr	X 600 X	0.0005 ton/lb	= <0.01 TPY
CH <sub>4</sub>	- - -	- - -	- - - =	1.02 lb/hr	X 600 X	0.0005 ton/lb	= 0.31 TPY
N <sub>2</sub> O	1.00E-04 kg/mmBtu	X 2.46E+00 mmBtu/hr	X 2.20462 lb/kg	= <0.01 lb/hr	X 600 X	0.0005 ton/lb	= <0.01 TPY

Pilot Emissions

Pollutant	Emission Factor	Capacity	Conversion	Hourly Emissions	Operating Hours	Conversion	Annual Emissions
NOx	1.00E+02 lb/mmscf	X 2.20E-05 mmscf/hr	X - - =	<0.01 lb/hr	X 8,760 X	0.0005 ton/lb	= 0.01 TPY
CO	8.40E+01 lb/mmscf	X 2.20E-05 mmscf/hr	X - - =	<0.01 lb/hr	X 8,760 X	0.0005 ton/lb	= 0.01 TPY
VOC	5.50E+00 lb/mmscf	X 2.20E-05 mmscf/hr	X - - =	<0.01 lb/hr	X 8,760 X	0.0005 ton/lb	= <0.01 TPY
SO <sub>2</sub>	6.00E-01 lb/mmscf	X 2.20E-05 mmscf/hr	X - - =	<0.01 lb/hr	X 8,760 X	0.0005 ton/lb	= <0.01 TPY
PM <sub>10.2.5</sub>	1.90E+00 lb/mmscf	X 2.20E-05 mmscf/hr	X - - =	<0.01 lb/hr	X 8,760 X	0.0005 ton/lb	= <0.01 TPY
PM <sub>2.5</sub>	5.70E+00 lb/mmscf	X 2.20E-05 mmscf/hr	X - - =	<0.01 lb/hr	X 8,760 X	0.0005 ton/lb	= <0.01 TPY
PM <sub>10T</sub>	7.60E+00 lb/mmscf	X 2.20E-05 mmscf/hr	X - - =	<0.01 lb/hr	X 8,760 X	0.0005 ton/lb	= <0.01 TPY
Formaldehyde	7.50E-02 lb/mmscf	X 2.20E-05 mmscf/hr	X - - =	<0.01 lb/hr	X 8,760 X	0.0005 ton/lb	= <0.01 TPY
n-Hexane	1.80E+00 lb/mmscf	X 2.20E-05 mmscf/hr	X - - =	<0.01 lb/hr	X 8,760 X	0.0005 ton/lb	= <0.01 TPY
Benzene	2.10E-03 lb/mmscf	X 2.20E-05 mmscf/hr	X - - =	<0.01 lb/hr	X 8,760 X	0.0005 ton/lb	= <0.01 TPY
Toluene	3.40E-03 lb/mmscf	X 2.20E-05 mmscf/hr	X - - =	<0.01 lb/hr	X 8,760 X	0.0005 ton/lb	= <0.01 TPY
Other HAP	1.90E-03 lb/mmscf	X 2.20E-05 mmscf/hr	X - - =	<0.01 lb/hr	X 8,760 X	0.0005 ton/lb	= <0.01 TPY
CO <sub>2</sub>	5.31E+01 kg/mmBtu	X 2.26E-02 mmBtu/hr	X 2.20462 lb/kg	= 2.64 lb/hr	X 8,760 X	0.0005 ton/lb	= 11.56 TPY
CH <sub>4</sub>	1.00E-03 kg/mmBtu	X 2.26E-02 mmBtu/hr	X 2.20462 lb/kg	= <0.01 lb/hr	X 8,760 X	0.0005 ton/lb	= <0.01 TPY
N <sub>2</sub> O	1.00E-04 kg/mmBtu	X 2.26E-02 mmBtu/hr	X 2.20462 lb/kg	= <0.01 lb/hr	X 8,760 X	0.0005 ton/lb	= <0.01 TPY

**ONEOK Rockies Midstream, L.L.C.**  
**Antelope Compressor Station**  
**Flare Emissions Calculations - Flare Stream Analysis**

Unit ID: FL-2

Component	Molecular Weight	Stream 1		Total Streams Burned in Flare					Net Heating Value	Net Btu Rate
		Miscellaneous Vents and Blowdowns		Uncontrolled		scfd	Controlled			
		1.88E+03	scfh	lb/hr	TPY		lb/hr	TPY	Btu/scf	Btu/hr
Water	18.0153	0.000%	0.00	0.00	0.00	0	0.00	0.00	0.00	0
Hydrogen Sulfide	34.081	0.000%	0.00	0.00	0.00	0	0.00	0.00	586.80	0
Carbon Dioxide	44.010	0.842%	1.85	1.85	0.55	383	1.85	0.55	0.00	0
Nitrogen	28.013	1.686%	2.36	2.36	0.71	766	2.36	0.71	0.00	0
Helium	4.003	0.000%	0.00	0.00	0.00	0	0.00	0.00	0.00	0
Oxygen	31.999	0.000%	0.00	0.00	0.00	0	0.00	0.00	0.00	0
Methane	16.043	63.797%	51.04	51.04	15.31	28,969	1.02	0.31	909.40	1,097,676
Ethane	30.069	18.282%	27.41	27.41	8.22	8,301	0.55	0.16	1,618.70	559,886
Propane	44.096	8.714%	19.16	19.16	5.75	3,957	0.38	0.11	2,314.90	381,651
i-Butane	58.122	1.130%	3.27	3.27	0.98	513	0.07	0.02	3,000.40	64,125
n-Butane	58.122	3.144%	9.11	9.11	2.73	1,427	0.18	0.05	3,010.80	179,073
i-Pentane	72.149	0.662%	2.38	2.38	0.71	301	0.05	0.01	3,699.00	46,344
n-Pentane	72.149	0.965%	3.47	3.47	1.04	438	0.07	0.02	3,706.90	67,673
n-Hexane	86.175	0.147%	0.63	0.63	0.19	67	0.01	0.00	4,403.80	12,273
Other Hexanes	86.175	0.410%	1.76	1.76	0.53	186	0.04	0.01	4,403.80	34,125
Heptanes	100.202	0.077%	0.39	0.39	0.12	35	0.01	0.00	5,100.00	7,445
Benzene	78.114	0.016%	0.06	0.06	0.02	7	0.00	0.00	3,590.90	1,072
Toluene	92.141	0.012%	0.06	0.06	0.02	6	0.00	0.00	4,273.60	990
Ethylbenzene	106.167	0.001%	0.00	0.00	0.00	0	0.00	0.00	4,970.50	80
Xylenes	106.167	0.004%	0.02	0.02	0.01	2	0.00	0.00	4,957.10	332
Octanes	114.229	0.098%	0.54	0.54	0.16	43	0.01	0.00	5,796.00	10,479
2,2,4-Trimethylpentane	114.231	0.008%	0.05	0.05	0.01	4	0.00	0.00	5,778.80	867
Nonanes	128.255	0.000%	0.00	0.00	0.00	0	0.00	0.00	6,493.20	0
Decanes	142.282	0.000%	0.00	0.00	0.00	0	0.00	0.00	7,189.60	0
<b>Totals =</b>		<b>99.9908%</b>	<b>123.57</b>	<b>123.57</b>	<b>37.07</b>	<b>45,404</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>2,464,090</b>
<b>Total VOC =</b>		<b>15.384%</b>	<b>40.91</b>	<b>40.91</b>	<b>12.27</b>	<b>--</b>	<b>0.82</b>	<b>0.25</b>		
				<b>Total HAP =</b>	<b>0.82</b>	<b>0.25</b>	<b>--</b>	<b>0.02</b>	<b>0.00</b>	
				<b>Total H<sub>2</sub>S=</b>	<b>0.00</b>	<b>0.00</b>	<b>--</b>	<b>0.00</b>	<b>0.00</b>	
				<b>MW of Stream =</b>	<b>24.78</b>					

Notes:  
 1) Representative inlet gas analysis with C6+ estimated per GLYCalc. Estimated 600 vents or blowdowns at 1.889 MCF and one hour each.

ONEOK Rockies Midstream, L.L.C.  
Antelope Compressor Station  
November 2025

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## **Appendix C – Support Documents**

Redlined Permit to Operate AOP-28518 V1.0

March 15, 2023

Mr. Kale Hanner  
Environmental Compliance Supervisor  
ONEOK Rockies Midstream, L.L.C.  
P.O. Box 871  
Tulsa, OK 74102-0871

Re: Air Quality  
Initial Permit to Operate  
Title V Source

Dear Mr. Hanner:

On September 2, 2022, the Department received a Permit to Operate application for the Antelope Compressor Station located in McKenzie 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](mailto:kkschneider@nd.gov).

Sincerely,



Kyla K. Schneider  
Environmental Scientist  
Division of Air Quality

KKS:lc

Enc:

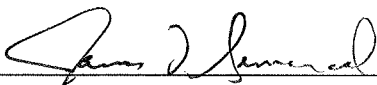
xc/enc: Dan Fagnant, EPA/R8 (email - [fagnant.daniel@epa.gov](mailto:fagnant.daniel@epa.gov))

## AIR POLLUTION CONTROL TITLE V PERMIT TO OPERATE

<b>Permittee:</b> <b>Name:</b> ONEOK Rockies Midstream, L.L.C.  <b>Address:</b> 100 West Fifth Street Tulsa, OK 74103-4298	<b>Permit Number:</b> AOP-28518 v1.0
<b>Source Location:</b> County Road 6 New Town, North Dakota 58763 NW ¼, Sec. 12, T 152N, R 94W Lat. 48.002889, Long. -102.661667 McKenzie County	<b>Source Name:</b> Antelope Compressor Station
<b>Expiration Date:</b>	<b>Source Type:</b> Compressor Station
March 15, 2028	

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: 3/15/23

  
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 James L. Semerad  
 Director  
 Division of Air Quality

ONEOK Rockies Midstream LLC  
Antelope Compressor Station  
Title V Permit to Operate  
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1. **Emission Unit Identification:**

The emission units regulated by this permit are as follows:

<b>Emission Unit Description</b>	<b>Emission Unit (EU)</b>	<b>Emission Point (EP)</b>	<b>Air Pollution Control Equipment</b>
Caterpillar G3608 LE (4SLB) natural gas-fired compressor engine rated at 2,370 bhp (JJJJ) (ZZZZ)	C-1	C-1	Oxidation Catalyst
Caterpillar G3608 LE (4SLB) natural gas-fired compressor engine rated at 2,370 bhp (JJJJ) (ZZZZ)	C-2	C-2	Oxidation Catalyst
Caterpillar G3608 LE (4SLB) natural gas-fired compressor engine rated at 2,370 bhp (JJJJ) (ZZZZ)	C-3	C-3	Oxidation Catalyst
Caterpillar G3608 LE (4SLB) natural gas-fired compressor engine rated at 2,370 bhp (JJJJ) (ZZZZ)	C-4	C-4	Oxidation Catalyst
Caterpillar G3608 LE (4SLB) natural gas-fired compressor engine rated at 2,370 bhp (JJJJ) (ZZZZ)	C-5	C-5	Oxidation Catalyst
Caterpillar G3608 LE (4SLB) natural gas-fired compressor engine rated at 2,370 bhp (JJJJ) (ZZZZ)	C-6	C-6	Oxidation Catalyst
Ten 400-barrel condensate tanks	T-1 <sup>A</sup> through T-10 <sup>A</sup>	VRU	Submerged Fill Pipes (SFP) & Vapor Recovery Unit (VRU)
Two 400-barrel produced water tanks	WTK-1 <sup>A</sup> & WTK-2 <sup>A</sup>	WTK-1 & WTK-2	SFP
400-barrel LACT divert tank	LTK-1 <sup>A</sup>	LTK-1	VRU
400-barrel methanol tank	MTK-1 <sup>A</sup>	MTK-1	SFP
Condensate truck loading	TL-1 <sup>A</sup>	TL-1	None
<del>Emergency/process flare</del>	<del>FL-1</del>	<del>FL-1</del>	<del>None</del>
Fugitive emissions	FUG <sup>A</sup>	FUG	Leak Detection and Repair (LDAR) Program
Blowdowns and maintenance venting	BD <sup>A</sup>	BD	None

<sup>A</sup> Insignificant or fugitive emission sources (no specific emission limit).


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

A. **Fuel Restrictions:** The engines (EU C-1 through C-6) are restricted to combusting only field gas or natural gas containing no more than 2 grains of sulfur per 100 standard cubic feet.

Applicable Requirement: ACP-17901 v1.1

**B. Flaring Restrictions:**

- 1) When it is necessary to operate the flare during emergency, malfunction or maintenance, all precautions shall be taken to minimize emissions and maintain compliance with the applicable ambient air quality standards as outlined in NDAC 33.1-15-02 and the opacity standard of 20% not to exceed 60% for more than one six-minute period per hour.
- 2) The flare must be equipped and operated with an automatic ignitor or a continuous burning pilot which must be maintained in good working order as outlined in NDAC 33.1-15-07-02.
- 3) The presence of a flame shall be monitored using a thermocouple or any other equivalent device approved by the Department.

Applicable Requirements: ACP-17901 v1.1 and NDAC 33.1-15-14-06.5.b( 

**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 JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (EU C-1 through C-6).
- 2) Subpart OOOOa - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015. (EU C-1 through C-6 reciprocating compressors and FUG).

Applicable Requirements: NDAC 33.1-15-12-02, Subparts A, JJJJ 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 ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (EU C-1 through C-6). The North Dakota Department of Environmental Quality has not adopted the area source provisions of this subpart. Please send all documentation to EPA at the address below.

U.S. EPA Region 8  
1595 Wynkoop Street  
Mail Code 8ENF – AT  
Denver, CO 80202-1129

Applicable Requirements: NDAC 33.1-15-22-03, Subpart A and 40 CFR 63, Subpart ZZZZ

E. **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.

Applicable Requirement: ACP-17901 v1.1

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

- 1) The Department must be notified within 10 days after change-out of the engine.
- 2) The replacement engine shall operate in the same manner, provide no increase in throughput and have equal or less emissions than the engine it is replacing.
- 3) The date of manufacture of the replacement engine must be included in the notification. The facility must comply with any applicable federal standards (e.g. NSPS, 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 engine.

Applicable Requirements: ACP-17901 v1.1 and NDAC 33.1-15-14-06.5.b(1)

3. **Emission Unit Limits:**

Emission Unit Description	EU	EP	Pollutant/Parameter	Emission/Parameter Limit <sup>A</sup>	NDAC Applicable Requirement
Caterpillar compressor engines	C-1 through C-6	C-1 through C-6	NO <sub>x</sub>	3.66 lb/hr & 1.0 g/hp-hr or 82 ppmvd <sup>B</sup>	ACP-17901 v1.1
			CO	3.27 lb/hr & 2.0 g/hp-hr or 270 ppmvd <sup>B</sup>	ACP-17901 v1.1
			VOC	3.66 lb/hr & 0.7 g/hp-hr or 60 ppmvd <sup>B</sup>	ACP-17901 v1.1
			Opacity	20% <sup>C</sup>	ACP-17901 v1.1
Condensate truck loading	TL-1	TL-1	VOC	20 tons/12-month period (rolling total)	ACP-17901 v1.1
<del>Emergency/process flare</del>	<del>FL-1</del>	<del>FL-1</del>	<del>Opacity</del>	<del>20%<sup>D</sup></del>	<del>ACP-17901 v1.1</del>
Fugitives	FUG	FUG	VOC	Cond. 2.C.2	33.1-15-12-02, Subpart 0000a

<sup>A</sup> Emission limits apply to each individual emission point.

- B Emission limits provided as g/hp-hr and ppmvd (@ 15 % O<sub>2</sub>) are from 40 CFR 60, Subpart JJJJ. The engines must also comply with the applicable lb/hr emissions limits and any applicable emission limits established by 40 CFR 63, Subpart ZZZZ.
- C 40% permissible for not more than one six-minute period per hour.
- D 60% permissible for not more than one six-minute period per hour.

4. **Monitoring Requirements and Conditions:**

A. **Requirements:**

Emission Unit Description	EU	Pollutant/Parameter	Monitoring Requirement (Method)	Condition Number	NDAC Applicable Requirement
Caterpillar compressor engines	C-1 through C-6	NO <sub>x</sub> /CO/VOC	Emissions Testing	4.B.1	33.1-15-14-06.5.a(3)(a) & 33.1-15-12-02, Subpart JJJJ
		Opacity	Recordkeeping	4.B.2	33.1-15-14-06.5.a(3)(a)
Condensate truck loading	TL-1	VOC	Calculation & Recordkeeping	4.B.3	ACP-17901 v1.1
Emergency/process flare	<del>FL-1</del>	Opacity	<del>Recordkeeping &amp; VEO</del>	<del>4.B.4</del>	<del>33.1-15-14-06.5.a(3)(a)</del>
Reciprocating Compressors	--	VOC	Recordkeeping	4.B.5	33.1-15-12-02, Subpart OOOOa
Fugitive emissions	FUG	VOC	LDAR	4.B.6	33.1-15-12-02, Subpart OOOOa

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<sub>x</sub>, CO and, if applicable, 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 at least 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 IIII, Subpart JJJJ or 40 CFR 63, Subpart ZZZZ.

- 2) For purposes of compliance monitoring, burning of fuels outlined in Condition 2.A shall be considered credible evidence of compliance with the 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 the burning of gaseous fuel as outlined in Condition 2.A for evidence of compliance or noncompliance with the opacity limit in the event of enforcement action.

- 3) By the 15<sup>th</sup> day of each month, the permittee shall calculate VOC emissions from the condensate truck loadout (EU TL-1). The following calculation shall be used to calculate emissions:

$$\text{VOC}_{\text{EU TL}} \text{ (tons/12-month period)} = EF \times T \times \frac{1 \text{ ton}}{2,000 \text{ lb}}$$

Where:

$\text{VOC}_{\text{EU TL}}$	=	VOC emissions from truck loading (tons)
EF	=	VOC emission factor from truck loading (0.16 lb VOC/bbl loaded)*
T	=	Amount of condensate loaded (barrels/12- month period)

\* The emission factor shall be based on the most recent Department-approved performance test conducted to measure VOC emissions from condensate truck loading. Alternative emission factors may be utilized upon approval from the Department.

- a) If VOC emissions exceed 20 tons in any 12-month period, the permittee shall notify the Department by the 25<sup>th</sup> day of the month in which the calculation was made.
- 4) Visible Emissions Observations: At least once per week in which the emission unit 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 points. If no visible emissions are present, the permittee shall record the date, time and observation results. If the observation indicates visible emissions are present:
- 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 situation is expected to take longer than 24 hours, the permittee shall follow procedures as outlined in Condition 7.G. All instances of visible emissions observed, associated investigations of malfunctions, and corrective actions taken shall be recorded.
- 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.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 readings 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 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 OOOOa, §60.5385a, as applicable.
  - 6) For all equipment subject to the standard, the permittee shall comply with the inspection, monitoring and maintenance requirements of 40 CFR 60, Subpart OOOOa, §60.5397a, 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 40 CFR 63, as applicable.
- 1) NDAC 33.1-15-12-02, Subpart OOOOa, Continuous Compliance and Monitoring
  - 2) 40 CFR 63, Subpart ZZZZ, §63.6635-§63.6640, Continuous Compliance

Applicable Requirements: NDAC 33.1-15-12-02, Subpart OOOOa and 40 CFR 63, Subpart ZZZZ

**5. Recordkeeping Requirements:**

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

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

Monitoring Records

Emission Unit Description	EU	Pollutant/ Parameter	Compliance Monitoring Record
Caterpillar compressor engines	C-1 through C-6	NO <sub>x</sub> /CO/VOC  Opacity	Emissions Testing Data  Fuel Type Data
Condensate truck loading	TL-1	VOC	Emission Calculation & Recordkeeping Data
<del>Emergency/process flare</del>	<del>FL-1</del>	<del>Opacity</del>	<del>Recordkeeping and VEO Data</del>
Reciprocating Compressors	--	VOC	Recordkeeping Data
Fugitive emissions	FUG	VOC	LDAR Inspection, Monitoring & Repair Records Data

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, Subpart A, §60.7, Notification and Recordkeeping
- 2) NDAC 33.1-15-12-02, Subpart JJJJ, §60.4245, Notification, Reports, and Records
- 3) NDAC 33.1-15-12-02, Subpart OOOOa, § 60.5420a, Notification, Reporting, and Recordkeeping Requirements
- 4) NDAC 33.1-15-22-03, Subpart A, §63.10, Recordkeeping and Reporting Requirements
- 5) 40 CFR 63, Subpart ZZZZ, §63.6645 – §63.6660, Notifications, Reports, and Records

Applicable Requirements: NDAC 33.1-15-12, NDAC 33.1-15-22 and 40 CFR 63, Subpart 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, 33.1-15-22 and 40 CFR 63, as applicable.

- 1) NDAC 33.1-15-12-02, Subpart A, §60.7, Notification and Recordkeeping

- 2) NDAC 33.1-15-12-02, Subpart JJJJ, §60.4245, Notification, Reports, and Records
- 3) NDAC 33.1-15-12-02, Subpart OOOOa, § 60.5420a, Notification, Reporting, and Recordkeeping Requirements
- 4) NDAC 33.1-15-22-03, Subpart A, §63.10, Recordkeeping and Reporting Requirements
- 5) 40 CFR 63, Subpart ZZZZ, §63.6645 – §63.6660, Notifications, Reports, and Records

Applicable Requirements: NDAC 33.1-15-12, NDAC 33.1-15-22 and 40 CFR 63, Subpart 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. **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)(i)(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, 2<sup>nd</sup> Floor  
Bismarck, ND 58503-1324

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

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

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

source. The Department shall have the right to access and copy any records required by the Department's rules and to inspect monitoring equipment located on the premises.

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

- G. **Compliance:** The permittee must comply with all conditions of this permit. Any noncompliance with a federally-enforceable permit condition constitutes a violation of the Federal Clean Air Act. Any noncompliance with any State enforceable condition of this permit constitutes a violation of NDCC Chapter 23.1-06 and NDAC 33.1-15. Violation of any condition of this permit is grounds for enforcement action, for permit termination, revocation and reissuance or modification, or for denial of a permit renewal application. Noncompliance may also be grounds for assessment of penalties under the NDCC 23.1-06. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

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

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

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

- I. **Reopening for Cause:** The Department will reopen and revise this permit as necessary to remedy deficiencies in the following circumstances:
- 1) Additional applicable requirements under the Federal Clean Air Act become applicable to the permittee with a remaining permit term of three or more years. Such a reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the expiration date of this permit.
  - 2) The Department or the United States Environmental Protection Agency determines that this permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.

- 3) The Department or the United States Environmental Protection Agency determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- 4) Reopenings shall not be initiated before a notice of intent to reopen is provided to the permittee by the Department at least 30 days in advance of the date that this permit is to be reopened, except that the Department may provide a shorter time period in the case of an emergency. Proceedings to reopen and issue this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable.

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

- J. **Permit Changes:** The permit may be modified, revoked, reopened, and reissued or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

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

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

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

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

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

- 1) Corrects typographical errors.

- 2) Identifies a change in the name, address or phone number of any person identified in this permit or provides a similar minor administrative change at the source.
- 3) Requires more frequent monitoring or reporting by the permittee.
- 4) Allows for a change in ownership or operational control of the source where the Department determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the Department.
- 5) Incorporates into the Title V permit the requirements from a Permit to Construct when the review was substantially equivalent to Title V requirements for permit issuance, renewal, reopenings, revisions and permit review by the United States Environmental Protection Agency and affected state review, that would be applicable to the change if it were subject to review as a permit modification and compliance requirements substantially equivalent to Title V requirements for permit content were contained in the Permit to Construct.
- 6) Incorporates any other type of change which the Administrator of the United States Environmental Protection Agency has approved as being an administrative permit amendment as part of the Department's approved Title V operating permit program.

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

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

- 1) Does not violate any applicable requirement.
- 2) Does not involve significant changes to existing monitoring, reporting, or recordkeeping requirements in this permit.
- 3) Does not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis.
- 4) Does not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include a federally enforceable emissions cap assumed to avoid classification as a modification under any provision of Title I of the Federal Clean Air Act; and alternative emissions limit approved pursuant to regulations promulgated under Section 112(i)(5) of the Federal Clean Air Act.
- 5) Is not a modification under NDAC 33.1-15-12, 33.1-15-13, and 33.1-15-15 or any provision of Title I of the Federal Clean Air Act.

- 6) Is not required to be processed as a significant modification.

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

**N. Significant Modifications:**

- 1) Significant modification procedures shall be used for applications requesting permit modifications that do not qualify as minor permit modifications or as administrative amendments. Every significant change in existing monitoring permit terms or conditions and every relaxation of reporting or recordkeeping permit terms or conditions shall be considered significant. Nothing therein shall be construed to preclude the permittee from making changes consistent with this subsection that would render existing permit compliance terms and conditions irrelevant.
- 2) Significant permit modifications shall meet all Title V requirements, including those for applications, public participation, review by affected states, and review by the United States Environmental Protection Agency, as they apply to permit issuance and permit renewal. The Department shall complete review of significant permit modifications within nine months after receipt of a complete application.

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

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

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

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

- P. Relationship to Other Requirements:** Nothing in this permit shall alter or affect the following:

- 1) The provisions of Section 303 of the Federal Clean Air Act (emergency orders), including the authority of the administrator of the United States Environmental Protection Agency under that section.
- 2) The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance.

- 3) The ability of the United States Environmental Protection Agency to obtain information from a source pursuant to Section 114 of the Federal Clean Air Act.
- 4) Nothing in this permit shall relieve the permittee of the requirement to obtain a Permit to Construct.

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

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

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

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

Applicable Requirement: NDAC 33.1-15-01-08

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

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

Applicable Requirement: NDAC 33.1-15-16

- B. **Hydrogen Sulfide Restriction:** The permittee shall not discharge into the ambient air hydrogen sulfide (H<sub>2</sub>S) 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