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Air Title V Operating Permit (AOP) - Renewal

version 2.8

(Submission #: HQQ-3DB8-ACTDN, version 2)

Details

Submission ID HQQ-3DB8-ACTDN

Status In Process

Form Input

Form Instructions

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

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

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

Section A - Permit Information

Permit Number
AOP-28419

Permit Version
1

Issue Date
10/09/2024

Expiration Date
02/24/2027

Permittee

Company Name
ONEOK Rockies Midstream, L.L.C.

Address

100 West Fifth St.

Tulsa, OK 74102

United States

Responsible Official

Prefix
Mr.

First Name	Last Name
Dick	Van Bossche

Title
NONE PROVIDED

Phone Type	Number	Extension
Business	4064338710	

Email
Dick.VandeBossche@oneok.com

Address
896 25th Street SE
None
Sydney, MT 59270
United States

Contact Person for Air Pollution Matters

Prefix
Ms.

First Name	Last Name
Deborah	Bedingfield

Title
NONE PROVIDED

Phone Type	Number	Extension
Business	9187321485	

Email
Deborah.Bedingfield@oneok.com

Address
100 W. Fifth Street
None
Tulsa, Oklahoma 74103
United States

Section B (Part 1) - Facility Information

Facility Name
ONEOK Rockies Midstream, L.L.C. - Demicks Lake Gas Plant - AQ

Have you added, removed, or made any modifications to equipment since your last operating permit issuance?
No

Is this source subject to Title IV Acid Rain regulations?
No

Is this a portable source?
No

Facility Location
11242 -33rd Street NW
Watford City, ND 58847
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:
47.88750500000000,-102.9895110000000

11242 -33rd Street NW, Watford City, ND

Section B (Part 2) - Additional Location Information

Legal Description of Facility Site

Qtr Qtr	Qtr	Section	Township	Range
NONE PROVIDED	NE	20	151N	96W

Land area at facility site (indicate whether measurement is in acres or sq. ft.)
NONE PROVIDED

MSL elevation at facility
NONE PROVIDED

Section C - Nature of Business

General Nature of Business

Describe Nature of Business	NAICS Code	SIC Code
Title V Permit Renewal	211130-Natural Gas Extraction	1321-Natural Gas Liquids

Actual Start of Construction Date
NONE PROVIDED

Actual End of Construction Date
NONE PROVIDED

Facility Startup Date
02/24/2022

Section D - Process Equipment Information (1 of 1)

Emission Unit -

Emission Unit ID
NONE PROVIDED

Emission Unit Description
NONE PROVIDED

Emission Point ID
NONE PROVIDED

Emission Point Description
NONE PROVIDED

Emission Process Description
NONE PROVIDED

Emission Unit Status
NONE PROVIDED

Applicable PTCs

PTC Number

Applicable Federal Air Programs

Program Code

Applicable State Regulations

Regulation

Emission Unit form

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

When completing the online application, if uploaded files are provided in each section (when indicated), do not include those same files in the General Document Upload/File Upload section. If uploading the application files in the General Document Upload/File Upload section, only fill out the required (asterisked) sections of the online application.
EMISSION UNIT FOR TITLE V PERMIT TO OPERATE (SFN61006)

Attach Emission Unit Form

NONE PROVIDED

Comment

NONE PROVIDED

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

Applicable Federal Air Programs

Program Code

Applicable State Regulations

Regulation

Potential to Emit (PTE)

Pollutant	Tons Per Year Without Fugitives	Tons Per Year With Fugitives
NOx	77.86	77.86
CO	179.81	179.81
VOCs	84.85	167.39
SO2	0.91	0.91
PM	8.39	8.39
PM10	8.39	8.39
PM2.5	8.39	8.39
Total HAPs	7.58	8.14

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

Demicks GP_AppB_EmEst_Updated_8-3-2026.pdf - 08/03/2026 02:42 PM

Comment

NONE PROVIDED

Section G - Compliance Schedule

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

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

Section H - Flexible Permits

Are you requesting a flexible permit?
No

Section I - Compliance Assurance Monitoring (CAM)

To determine if your facility is subject to CAM, review the information provided at the following link.
Compliance Assurance Monitoring (CAM) Guidance

Is the facility identified in this application in compliance with applicable monitoring and compliance certification requirements?
Yes, the facility IS in compliance with applicable monitoring and compliance certification requirements.

Section K - Redline Permit Upload

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

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

Attach redline version of permit here

2026-07_Demicks Lake GP_AOP28419v1_1_Redline.pdf - 07/29/2026 03:42 PM

Comment

NONE PROVIDED

Section L - General Document Upload

File Upload

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

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

Attachments

2026-0729_Demicks_Lake_GP_AOP28419v1_1_Renewal_Report_Submitted.pdf - 07/29/2026 03:51 PM
Demicks_Lake_GP_AOP28419v1_1_Renewal_SFN 52824_Signed.pdf - 07/29/2026 04:24 PM

Comment

NONE PROVIDED

Additional Forms

NONE PROVIDED

Attachments

Date	Attachment Name	Context	Confidential?	User
8/3/2026 2:42 PM	Demicks GP_AppB_EmEst_Updated_8-3-2026.pdf	Attachment	No	Deborah Bedingfield
7/29/2026 4:24 PM	Demicks_Lake_GP_AOP28419v1_1_Renewal_SFN 52824_Signed.pdf	Attachment	No	Deborah Bedingfield
7/29/2026 3:51 PM	2026-0729_Demicks_Lake_GP_AOP28419v1_1_Renewal_Report_Submitted.pdf	Attachment	No	Deborah Bedingfield
7/29/2026 3:42 PM	2026-07_Demicks Lake GP_AOP28419v1_1_Redline.pdf	Attachment	No	Deborah Bedingfield

Status History

	User	Processing Status
8/3/2026 1:18:21 PM	Deborah Bedingfield	Draft
8/3/2026 2:47:01 PM	Deborah Bedingfield	Signing

	User	Processing Status
8/3/2026 2:47:01 PM	Deborah Bedingfield	Submitting
8/3/2026 2:47:54 PM	Deborah Bedingfield	Submitted
8/3/2026 2:48:02 PM	Deborah Bedingfield	In Process

Revisions

Revision	Revision Date	Revision By
Revision 1	7/16/2026 1:48 PM	Joshua Hills
Revision 2	8/3/2026 1:18 PM	Deborah Bedingfield

Agreements and Signature(s)

Certification Statement

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.

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.

Signed By Deborah Bedingfield on 08/03/2026 at 2:47 PM

JexjMRGDWk3m9B84wCYghyvAXoIIMUQsdQSE2fHqu34nyniz3zowHAMoLnDMeudA66R5yAqjO0i6+hkahaRiSw==

ONEOK
ROCKIES MIDSTREAM
A SUBSIDIARY OF ONEOK PARTNERS

Air Emissions Calculations
prepared for
ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant

Regulatory Applicability	
Minor Source	NO
Major Source Criteria Pollutant	YES
Major Source Single Hazardous Air Pollutant	NO
Major Source Combined Hazardous Air Pollutants	NO
Major Source PSD	NO

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Facility Emissions Summary - Annual

Unit ID	Description	NOx	CO	VOC	SO_2	PM	HCHO	HAP	CO_2e
		TPY	TPY	TPY	TPY	TPY	TPY	TPY	TPY
EGEN-1	2,175-hp Caterpillar G3516C Emergency Generator	2.40	4.80	1.20	<0.01	0.04	0.67	0.75	538.68
EGEN-2	2,175-hp Caterpillar G3516C Emergency Generator	2.40	4.80	1.20	<0.01	0.04	0.67	0.75	538.68
EGEN-3	*2,175-hp Caterpillar G3512 Emergency Generator*	*1.62*	*3.24*	*0.81*	*<0.01*	*0.03*	*0.45*	*0.51*	*363.61*
H-1A	56.3-mmBtu/hr Hot Oil Heater	12.02	20.19	1.32	0.14	1.83	0.02	0.45	28,875.65
H-1B	22.04-mmBtu/hr Regen Heater	4.70	7.90	0.52	0.06	0.72	0.01	0.18	11,304.07
H-2A	56.3-mmBtu/hr Hot Oil Heater	12.02	20.19	1.32	0.14	1.83	0.02	0.45	28,875.65
H-2B	22.04-mmBtu/hr Regen Heater	4.70	7.90	0.52	0.06	0.72	0.01	0.18	11,304.07
H-3A	*61.2-mmBtu/hr Hot Oil Heater*	*13.06*	*21.95*	*1.44*	*0.16*	*1.99*	*0.02*	*0.49*	*31,388.81*
H-3B	*36.1-mmBtu/hr Regen Heater*	*7.71*	*12.95*	*0.85*	*0.09*	*1.17*	*0.01*	*0.29*	*18,515.29*
FL-1	*Plant Flare*	*16.61*	*75.10*	*49.65*	*0.25*	*0.01*	*<0.01*	*0.26*	*32,859.07*
WTK-1A	400-bbl Slop Water Tank	--	--	0.12	--	--	--	0.01	0.00
WTK-1B	400-bbl Slop Water Tank	--	--	0.12	--	--	--	0.01	0.00
WTK-2A	400-bbl Slop Water Tank	--	--	0.12	--	--	--	0.01	0.00
WTK-2B	400-bbl Slop Water Tank	--	--	0.12	--	--	--	0.01	0.00
TL-1	*Condensate Truck Loading*	--	--	*11.98*	--	--	--	*0.64*	*11.23*
COMB-1	*Combustor for Condensate Loading*	*0.63*	*0.81*	*0.03*	*<0.01*	*0.04*	*<0.01*	*<0.01*	*878.72*
MTK-1	300-bbl Methanol Tank	--	--	0.21	--	--	--	0.21	--
MTK-2	300-bbl Methanol Tank	--	--	0.21	--	--	--	0.21	--
MTK-3	*300-bbl Methanol Tank*	--	--	*0.21*	--	--	--	*0.21*	--
FUG-3	*Fugitive Emissions not Subject to NSPS KKK or OOOOa*	--	--	*10.83*	--	--	--	*0.00*	*1,836.64*
FUG-5	*Fugitive Emissions Subject to NSPS OOOOa, OOOOb*	--	--	*71.71*	--	--	--	*0.56*	*1,479.58*
BD	Miscellaneous Venting and Blowdowns to Atmosphere	--	--	12.88	--	--	--	0.10	382.54
	Total =	**77.86**	**179.81**	**167.39**	**0.91**	**8.39**	**1.88**	**6.26**	**169,152.30**

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.
Demicks Lake Gas Plant
Facility Emissions Summary - Hourly

Unit ID	Description	NOx	CO	VOC	SO_2	PM	HCHO	HAP	CO_2e
		lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
EGEN-1	*2,175-hp Caterpillar G3516C Emergency Generator*	*9.59*	*19.18*	*4.80*	*0.01*	*0.15*	*2.69*	*2.98*	*2,154.74*
EGEN-2	*2,175-hp Caterpillar G3516C Emergency Generator*	*9.59*	*19.18*	*4.80*	*0.01*	*0.15*	*2.69*	*2.98*	*2,154.74*
EGEN-3	*2,175-hp Caterpillar G3512 Emergency Generator*	*6.47*	*12.95*	*3.24*	*0.01*	*0.11*	*1.81*	*2.03*	*1,454.43*
H-1A	56.3-mmBtu/hr Hot Oil Heater	2.74	4.61	0.30	0.03	0.42	<0.01	0.10	6,592.61
H-1B	22.04-mmBtu/hr Regen Heater	1.07	1.80	0.12	0.01	0.16	<0.01	0.04	2,580.84
H-2A	56.3-mmBtu/hr Hot Oil Heater	2.74	4.61	0.30	0.03	0.42	<0.01	0.10	6,592.61
H-2B	22.04-mmBtu/hr Regen Heater	1.07	1.80	0.12	0.01	0.16	<0.01	0.04	2,580.84
H-3A	*61.2-mmBtu/hr Hot Oil Heater*	*2.98*	*5.01*	*0.33*	*0.04*	*0.45*	*<0.01*	*0.11*	*7,166.39*
H-3B	*36.1-mmBtu/hr Regen Heater*	*1.76*	*2.96*	*0.19*	*0.02*	*0.27*	*<0.01*	*0.07*	*4,227.24*
FL-1	Plant Flare	54.85	249.91	165.47	0.83	<0.01	<0.01	0.87	264,453.43
WTK-1A	400-bbl Slop Water Tank	--	--	0.03	--	--	--	<0.01	0.00
WTK-1B	400-bbl Slop Water Tank	--	--	0.03	--	--	--	<0.01	0.00
WTK-2A	400-bbl Slop Water Tank	--	--	0.03	--	--	--	<0.01	0.00
WTK-2B	400-bbl Slop Water Tank	--	--	0.03	--	--	--	<0.01	0.00
TL-1	*Condensate Truck Loading*	--	--	*2.74*	--	--	--	*0.14*	*2.56*
COMB-1	*Combustor for Condensate Loading*	*0.14*	*0.18*	*0.01*	*<0.01*	*0.01*	*<0.01*	*<0.01*	*200.62*
MTK-1	300-bbl Methanol Tank	--	--	0.05	--	--	--	0.05	--
MTK-2	300-bbl Methanol Tank	--	--	0.05	--	--	--	0.05	--
MTK-3	*300-bbl Methanol Tank*	--	--	*0.05*	--	--	--	*0.05*	--
FUG-3	*Fugitive Emissions not Subject to NSPS KKK or OOOOa*	--	--	*2.47*	--	--	--	*0.00*	*419.32*
FUG-5	*Fugitive Emissions Subject to NSPS OOOOa, OOOOb*	--	--	*16.37*	--	--	--	*0.13*	*337.80*
BD	Miscellaneous Venting and Blowdowns to Atmosphere	--	--	--	--	--	--	--	--
	Total =	**93.02**	**322.20**	**201.51**	**1.00**	**2.29**	**7.20**	**9.76**	**300,918.18**

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Facility Analyses

Component	Molecular Weight	Stream 1 Plant Inlet Gas				Stream 2 Condensate				Stream 3 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	0.0020%	0.00	0.00%	-	0.0000%	0.00	0.00%	-	0.0000%	0.00	0.00%	-
Carbon Dioxide	44.010	0.8123%	0.36	1.43%	-	0.6090%	0.27	0.77%	-	0.5540%	0.24	0.62%	-
Nitrogen	28.013	2.4752%	0.69	2.78%	-	0.4520%	0.13	0.36%	-	0.0000%	0.00	0.00%	-
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	60.2235%	9.66	38.69%	40.39%	27.8230%	4.46	12.77%	12.91%	16.8000%	2.70	6.88%	6.92%
Ethane	30.069	20.3345%	6.11	24.48%	25.56%	29.0380%	8.73	24.97%	25.26%	32.1000%	9.65	24.63%	24.78%
Propane	44.096	10.5107%	4.63	18.56%	19.37%	25.8970%	11.42	32.66%	33.04%	29.6000%	13.05	33.30%	33.51%
i-Butane	58.122	1.1117%	0.65	2.59%	2.70%	3.1390%	1.82	5.22%	5.28%	3.2500%	1.89	4.82%	4.85%
n-Butane	58.122	3.2514%	1.89	7.57%	7.90%	9.5230%	5.53	15.83%	16.01%	11.0000%	6.39	16.31%	16.41%
i-Pentane	72.149	0.4156%	0.30	1.20%	1.25%	1.4260%	1.03	2.94%	2.98%	1.9700%	1.42	3.63%	3.65%
n-Pentane	72.149	0.5640%	0.41	1.63%	1.70%	1.7790%	1.28	3.67%	3.71%	3.0000%	2.16	5.52%	5.56%
n-Hexane	86.175	0.0445%	0.04	0.15%	0.16%	0.1780%	0.15	0.44%	0.44%	1.0100%	0.87	2.22%	2.23%
Other Hexanes	86.175	0.1923%	0.17	0.66%	0.69%	0.0000%	0.00	0.00%	0.00%	0.0000%	0.00	0.00%	0.00%
Heptanes	100.202	0.0207%	0.02	0.08%	0.09%	0.0920%	0.09	0.26%	0.27%	0.5550%	0.56	1.42%	1.43%
Benzene	78.114	0.0100%	0.01	0.03%	0.03%	0.0000%	0.00	0.00%	0.00%	0.0421%	0.03	0.08%	0.08%
Toluene	92.141	0.0086%	0.01	0.03%	0.03%	0.0000%	0.00	0.00%	0.00%	0.0248%	0.02	0.06%	0.06%
Ethylbenzene	106.167	0.0004%	0.00	0.00%	0.00%	0.0000%	0.00	0.00%	0.00%	0.0036%	0.00	0.01%	0.01%
Xylenes	106.167	0.0022%	0.00	0.01%	0.01%	0.0000%	0.00	0.00%	0.00%	0.0128%	0.01	0.03%	0.03%
Octanes	114.229	0.0145%	0.02	0.07%	0.07%	0.0310%	0.04	0.10%	0.10%	0.1370%	0.16	0.40%	0.40%
2,2,4-Trimethylpentane	114.231	0.0080%	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%	0.0000%	0.00	0.00%	0.00%	0.0197%	0.03	0.06%	0.06%
Decanes	142.282	0.0000%	0.00	0.00%	0.00%	0.0000%	0.00	0.00%	0.00%	0.0000%	0.00	0.00%	0.00%
Totals =		100.0020%	24.97	100.00%	100.00%	99.9870%	34.96	100.00%	100.00%	100.0790%	39.19	100.00%	100.00%
		Total HC =	**23.92**	**Total VOC =**	**34.05%**	**Total HC =**	**34.57**	**Total VOC =**	**61.83%**	**Total HC =**	**38.95**	**Total VOC =**	**68.30%**
				Total HAP =	**0.28%**			**Total HAP =**	**0.44%**			**Total HAP =**	**2.42%**

Notes:
1) Modeled/estimated analyses.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Facility Analyses (Continued)

Component	Molecular Weight	Stream 4 Residue Gas				Stream 5 Acid Gas			
		Mole %	Equiv. Wt. Basis	Weight %	HC Weight %	Mole %	Equiv. Wt. Basis	Weight %	HC Weight %
Hydrogen Sulfide	34.081	0.0004%	0.00	0.00%	-	0.2300%	0.08	0.19%	-
Carbon Dioxide	44.010	2.0000%	0.88	4.89%	-	91.9800%	40.48	99.57%	-
Nitrogen	28.013	0.0000%	0.00	0.00%	-	0.0000%	0.00	0.00%	-
Helium	4.003	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%	-
Methane	16.043	92.9996%	14.92	82.86%	87.12%	0.2300%	0.04	0.09%	38.26%
Ethane	30.069	0.0000%	0.00	0.00%	0.00%	0.1200%	0.04	0.09%	37.42%
Propane	44.096	5.0000%	2.20	12.25%	12.88%	0.0400%	0.02	0.04%	18.29%
i-Butane	58.122	0.0000%	0.00	0.00%	0.00%	0.0000%	0.00	0.00%	0.00%
n-Butane	58.122	0.0000%	0.00	0.00%	0.00%	0.0100%	0.01	0.01%	6.03%
i-Pentane	72.149	0.0000%	0.00	0.00%	0.00%	0.0000%	0.00	0.00%	0.00%
n-Pentane	72.149	0.0000%	0.00	0.00%	0.00%	0.0000%	0.00	0.00%	0.00%
n-Hexane	86.175	0.0000%	0.00	0.00%	0.00%	0.0000%	0.00	0.00%	0.00%
Other Hexanes	86.175	0.0000%	0.00	0.00%	0.00%	0.0000%	0.00	0.00%	0.00%
Heptanes	100.202	0.0000%	0.00	0.00%	0.00%	0.0000%	0.00	0.00%	0.00%
Benzene	78.114	0.0000%	0.00	0.00%	0.00%	0.0000%	0.00	0.00%	0.00%
Toluene	92.141	0.0000%	0.00	0.00%	0.00%	0.0000%	0.00	0.00%	0.00%
Ethylbenzene	106.167	0.0000%	0.00	0.00%	0.00%	0.0000%	0.00	0.00%	0.00%
Xylenes	106.167	0.0000%	0.00	0.00%	0.00%	0.0000%	0.00	0.00%	0.00%
Octanes	114.229	0.0000%	0.00	0.00%	0.00%	0.0000%	0.00	0.00%	0.00%
2,2,4-Trimethylpentane	114.231	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%	0.0000%	0.00	0.00%	0.00%
Decanes	142.282	0.0000%	0.00	0.00%	0.00%	0.0000%	0.00	0.00%	0.00%
Totals =		100.0000%	18.00	100.00%	100.00%	92.6100%	40.65	100.00%	100.00%
		Total HC =	**17.12**	**Total VOC =**	**12.88%**	**Total HC =**	**0.10**	**Total VOC =**	**24.32%**
				Total HAP =	**0.00%**			**Total HAP =**	**0.00%**

Notes:
1) Modeled/estimated analyses.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Estimated Extended Inlet Gas Analysis

Component	Production	
	GRI Fraction	Estimated Mole %
Other Hexanes	0.6385	0.1923
n-Hexane	0.1479	0.0445
Heptane	0.0687	0.0207
2,2,4-Trimethylpentane	0.0267	0.0080
Octanes+	0.0480	0.0145
Benzene	0.0331	0.0100
Toluene	0.0285	0.0086
Ethylbenzene	0.0014	0.0004
Xylenes	0.0072	0.0022
Total=		0.3011

C6+ Value From Gas Analysis = 0.3011 mole %

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Engine Information and Manufacturer Emission Factors

Equipment Information			
	EGEN-1	**EGEN-2**	**EGEN-3**
Make	Caterpillar	Caterpillar	Caterpillar
Model	G3516C	G3516C	G3512
Design Rating (hp)	2,175	2,175	1,468
Fuel Consumption (Btu/hp-hr)	6,705	6,705	7,275
Fuel Consumption (scfh)	14,214	14,214	10,409
Fuel Consumption (mmBtu/hr)	14.58	14.58	10.68
Fuel Consumption (scf/yr)	7,106,908	7,106,908	5,204,532
Fuel Heating Value (Btu/scf)	1,026	1,026	1,026
Design Class	4S-LB	4S-LB	4S-LB
Controls	None	None	None
Operating Hours	500	500	500

Uncontrolled Emission Factors			
	EGEN-1	**EGEN-2**	**EGEN-3**
NOx (g/hp-hr)	2.00	2.00	2.00
CO (g/hp-hr)	4.00	4.00	4.00
VOC (g/hp-hr)	1.00	1.00	1.00
Formaldehyde (g/hp-hr)	0.56	0.56	0.56
CO_2 (g/hp-hr)	449	449	449

Notes:
1) Emission Factor Source: NO, CO and VOC: NSPS JJJJ emissions limitations for emergency engines. Formaldehyde and CO_2: Manufacturer data.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Engine AP-42/EPA Emission Factors

Emission Factors	
	4S-LB
SO_2 (lb/mmBtu)	5.88E-04
$PM_{10/2.5}$ (lb/mmBtu)	7.71E-05
PM_{COND} (lb/mmBtu)	9.91E-03
PM_{TOT} (lb/mmBtu)	9.99E-03
Acetaldehyde (lb/mmBtu)	8.36E-03
Acrolein (lb/mmBtu)	5.14E-03
Benzene (lb/mmBtu)	4.40E-04
Ethylbenzene (lb/mmBtu)	3.97E-05
Methanol (lb/mmBtu)	2.50E-03
n-Hexane (lb/mmBtu)	1.11E-03
Toluene (lb/mmBtu)	4.08E-04
Xylenes (lb/mmBtu)	1.84E-04
Other HAP (lb/mmBtu)	2.32E-03
Carbon Dioxide (CO_2) (kg/mmBtu)	5.31E+01
Methane (CH_4) (kg/mmBtu)	1.00E-03
Nitrous Oxide (N_2O) (kg/mmBtu)	1.00E-04

Notes:
1) Criteria pollutant and hazardous air pollutant emission factors are from AP-42 Table 3.2-2 (7/00). Greenhouse gas emission factors are from 40 CFR Tables C-1 and C-2.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Engine Emissions Calculations

Unit ID: **EGEN-1**

Pollutant	Emission Factor			Capacity			Conversion			Hourly Emissions			Operating Hours		Conversion			Annual Emissions	
NOx	2.00E+00	g/hp-hr	X	2,175	hp	X	0.00220462	lb/gr	=	**9.59**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**2.40**	**TPY**
CO	4.00E+00	g/hp-hr	X	2,175	hp	X	0.00220462	lb/gr	=	**19.18**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**4.80**	**TPY**
VOC	1.00E+00	g/hp-hr	X	2,175	hp	X	0.00220462	lb/gr	=	**4.80**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**1.20**	**TPY**
SO_2	5.88E-04	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**0.01**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**<0.01**	**TPY**
$PM_{10/2.5}$	7.71E-05	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**<0.01**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**<0.01**	**TPY**
PM_{COND}	9.91E-03	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**0.14**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.04**	**TPY**
PM_{TOT}	9.99E-03	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**0.15**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.04**	**TPY**
Acetaldehyde	8.36E-03	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**0.12**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.03**	**TPY**
Acrolein	5.14E-03	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**0.07**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.02**	**TPY**
Benzene	4.40E-04	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**0.01**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**<0.01**	**TPY**
Ethylbenzene	3.97E-05	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**<0.01**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**<0.01**	**TPY**
Formaldehyde	5.60E-01	g/hp-hr	X	2,175	hp	X	0.00220462	lb/gr	=	**2.69**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.67**	**TPY**
Methanol	2.50E-03	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**0.04**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.01**	**TPY**
n-Hexane	1.11E-03	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**0.02**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**<0.01**	**TPY**
Toluene	4.08E-04	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**0.01**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**<0.01**	**TPY**
Xylenes	1.84E-04	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**<0.01**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**<0.01**	**TPY**
Other HAP	2.32E-03	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**0.03**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.01**	**TPY**
CO_2	4.49E+02	g/hp-hr	X	2,175	hp	X	0.00220462	lb/gr	=	**2,152.98**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**538.24**	**TPY**
CH_4	1.00E-03	kg/mmBtu	X	14.58	mmBtu/hr	X	2.20462	lb/kg	=	**0.03**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.01**	**TPY**
N_2O	1.00E-04	kg/mmBtu	X	14.58	mmBtu/hr	X	2.20462	lb/kg	=	**<0.01**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**<0.01**	**TPY**

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Engine Emissions Calculations

Unit ID: **EGEN-2**

Pollutant	Emission Factor			Capacity			Conversion			Hourly Emissions			Operating Hours		Conversion			Annual Emissions	
NOx	2.00E+00	g/hp-hr	X	2,175	hp	X	0.00220462	lb/gr	=	**9.59**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**2.40**	**TPY**
CO	4.00E+00	g/hp-hr	X	2,175	hp	X	0.00220462	lb/gr	=	**19.18**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**4.80**	**TPY**
VOC	1.00E+00	g/hp-hr	X	2,175	hp	X	0.00220462	lb/gr	=	**4.80**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**1.20**	**TPY**
SO_2	5.88E-04	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**0.01**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**<0.01**	**TPY**
$PM_{10/2.5}$	7.71E-05	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**<0.01**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**<0.01**	**TPY**
PM_{COND}	9.91E-03	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**0.14**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.04**	**TPY**
PM_{TOT}	9.99E-03	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**0.15**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.04**	**TPY**
Acetaldehyde	8.36E-03	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**0.12**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.03**	**TPY**
Acrolein	5.14E-03	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**0.07**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.02**	**TPY**
Benzene	4.40E-04	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**0.01**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**<0.01**	**TPY**
Ethylbenzene	3.97E-05	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**<0.01**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**<0.01**	**TPY**
Formaldehyde	5.60E-01	g/hp-hr	X	2,175	hp	X	0.00220462	lb/gr	=	**2.69**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.67**	**TPY**
Methanol	2.50E-03	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**0.04**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.01**	**TPY**
n-Hexane	1.11E-03	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**0.02**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**<0.01**	**TPY**
Toluene	4.08E-04	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**0.01**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**<0.01**	**TPY**
Xylenes	1.84E-04	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**<0.01**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**<0.01**	**TPY**
Other HAP	2.32E-03	lb/mmBtu	X	14.58	mmBtu/hr	X	-	-	=	**0.03**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.01**	**TPY**
CO_2	4.49E+02	g/hp-hr	X	2,175	hp	X	0.00220462	lb/gr	=	**2,152.98**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**538.24**	**TPY**
CH_4	1.00E-03	kg/mmBtu	X	14.58	mmBtu/hr	X	2.20462	lb/kg	=	**0.03**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.01**	**TPY**
N_2O	1.00E-04	kg/mmBtu	X	14.58	mmBtu/hr	X	2.20462	lb/kg	=	**<0.01**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**<0.01**	**TPY**

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Engine Emissions Calculations

Unit ID: **EGEN-3**

Pollutant	Emission Factor			Capacity			Conversion			Hourly Emissions			Operating Hours		Conversion			Annual Emissions	
NOx	2.00E+00	g/hp-hr	X	1,468	hp	X	0.00220462	lb/gr	=	**6.47**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**1.62**	**TPY**
CO	4.00E+00	g/hp-hr	X	1,468	hp	X	0.00220462	lb/gr	=	**12.95**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**3.24**	**TPY**
VOC	1.00E+00	g/hp-hr	X	1,468	hp	X	0.00220462	lb/gr	=	**3.24**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.81**	**TPY**
SO_2	5.88E-04	lb/mmBtu	X	10.68	mmBtu/hr	X	-	-	=	**0.01**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**<0.01**	**TPY**
$PM_{10/2.5}$	7.71E-05	lb/mmBtu	X	10.68	mmBtu/hr	X	-	-	=	**<0.01**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**<0.01**	**TPY**
PM_{COND}	9.91E-03	lb/mmBtu	X	10.68	mmBtu/hr	X	-	-	=	**0.11**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.03**	**TPY**
PM_{TOT}	9.99E-03	lb/mmBtu	X	10.68	mmBtu/hr	X	-	-	=	**0.11**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.03**	**TPY**
Acetaldehyde	8.36E-03	lb/mmBtu	X	10.68	mmBtu/hr	X	-	-	=	**0.09**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.02**	**TPY**
Acrolein	5.14E-03	lb/mmBtu	X	10.68	mmBtu/hr	X	-	-	=	**0.05**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.01**	**TPY**
Benzene	4.40E-04	lb/mmBtu	X	10.68	mmBtu/hr	X	-	-	=	**<0.01**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**<0.01**	**TPY**
Ethylbenzene	3.97E-05	lb/mmBtu	X	10.68	mmBtu/hr	X	-	-	=	**<0.01**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**<0.01**	**TPY**
Formaldehyde	5.60E-01	g/hp-hr	X	1,468	hp	X	0.00220462	lb/gr	=	**1.81**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.45**	**TPY**
Methanol	2.50E-03	lb/mmBtu	X	10.68	mmBtu/hr	X	-	-	=	**0.03**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.01**	**TPY**
n-Hexane	1.11E-03	lb/mmBtu	X	10.68	mmBtu/hr	X	-	-	=	**0.01**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**<0.01**	**TPY**
Toluene	4.08E-04	lb/mmBtu	X	10.68	mmBtu/hr	X	-	-	=	**<0.01**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**<0.01**	**TPY**
Xylenes	1.84E-04	lb/mmBtu	X	10.68	mmBtu/hr	X	-	-	=	**<0.01**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**<0.01**	**TPY**
Other HAP	2.32E-03	lb/mmBtu	X	10.68	mmBtu/hr	X	-	-	=	**0.02**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.01**	**TPY**
CO_2	4.49E+02	g/hp-hr	X	1,468	hp	X	0.00220462	lb/gr	=	**1,453.14**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**363.28**	**TPY**
CH_4	1.00E-03	kg/mmBtu	X	10.68	mmBtu/hr	X	2.20462	lb/kg	=	**0.02**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**0.01**	**TPY**
N_2O	1.00E-04	kg/mmBtu	X	10.68	mmBtu/hr	X	2.20462	lb/kg	=	**<0.01**	**lb/hr**	X	500	X	0.0005	ton/lb	=	**<0.01**	**TPY**

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Heater Information and Emission Factors

Equipment Information						
	H-1A	**H-1B**	**H-2A**	**H-2B**	**H-3A**	**H-3B**
Description	Hot Oil Heater	Regen Heater	Hot Oil Heater	Regen Heater	Hot Oil Heater	Regen Heater
Combustor Type	Low NOx	Low NOx	Low NOx	Low NOx	Low NOx	Low NOx
Burner Design (mmBtu/hr)	56.30	22.04	56.30	22.04	61.20	36.10
Fuel Consumption (mmscf/hr)	5.49E-02	2.15E-02	5.49E-02	2.15E-02	5.96E-02	3.52E-02
Fuel Consumption (mmscf/yr)	480.69	188.18	480.69	188.18	522.53	308.22
Fuel HHV (Btu/scf)	1,026	1,026	1,026	1,026	1,026	1,026
Operating Hours	8,760	8,760	8,760	8,760	8,760	8,760

AP-42/EPA Emission Factors		
	Uncontrolled	**Low NOx**
NOx (lb/mmscf)	100.0	50.0
CO (lb/mmscf)	84.0	84.0
VOC (lb/mmscf)	5.5	5.5
SO_2 (lb/mmscf)	0.6	0.6
$PM_{10/2.5}$ (lb/mmscf)	1.9	1.9
PM_{COND} (lb/mmscf)	5.7	5.7
PM_{TOT} (lb/mmscf)	7.6	7.6
Benzene (lb/mmscf)	2.10E-03	2.10E-03
Formaldehyde (lb/mmscf)	7.50E-02	7.50E-02
n-Hexane (lb/mmscf)	1.80E+00	1.80E+00
Toluene (lb/mmscf)	3.40E-03	3.40E-03
Other HAP (lb/mmscf)	1.90E-03	1.90E-03
Carbon Dioxide (CO_2) (kg/mmBtu)	53.06	53.06
Methane (CH_4) (kg/mmBtu)	1.00E-03	1.00E-03
Nitrous Oxide (N_2O) (kg/mmBtu)	1.00E-04	1.00E-04

Notes:
1) Criteria pollutant emission factor source: AP-42 Tables 1.4-1, -2 (7/98); HAP emission factor source: AP-42 Table 1.4-3 (7/98); GHG emission factor source: 40 CFR 98 Tables C-1 and C-2.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Heater Emissions Calculations

Unit ID: H-1A

Pollutant	Emission Factor			Capacity			Conversion		Hourly Emissions		Operating Hours		Conversion		Annual Emissions	
NOx	5.00E+01	lb/mmscf	X	5.49E-02	mmscf/hr	X	-	-	= **2.74**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **12.02**	**TPY**
CO	8.40E+01	lb/mmscf	X	5.49E-02	mmscf/hr	X	-	-	= **4.61**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **20.19**	**TPY**
VOC	5.50E+00	lb/mmscf	X	5.49E-02	mmscf/hr	X	-	-	= **0.30**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **1.32**	**TPY**
SO_2	6.00E-01	lb/mmscf	X	5.49E-02	mmscf/hr	X	-	-	= **0.03**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **0.14**	**TPY**
$PM_{10/2.5}$	1.90E+00	lb/mmscf	X	5.49E-02	mmscf/hr	X	-	-	= **0.10**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **0.46**	**TPY**
PM_{COND}	5.70E+00	lb/mmscf	X	5.49E-02	mmscf/hr	X	-	-	= **0.31**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **1.37**	**TPY**
PM_{TOT}	7.60E+00	lb/mmscf	X	5.49E-02	mmscf/hr	X	-	-	= **0.42**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **1.83**	**TPY**
Benzene	2.10E-03	lb/mmscf	X	5.49E-02	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	5.49E-02	mmscf/hr	X	-	-	= **<0.01**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **0.02**	**TPY**
n-Hexane	1.80E+00	lb/mmscf	X	5.49E-02	mmscf/hr	X	-	-	= **0.10**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **0.43**	**TPY**
Toluene	3.40E-03	lb/mmscf	X	5.49E-02	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	5.49E-02	mmscf/hr	X	-	-	= **<0.01**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **<0.01**	**TPY**
CO_2	5.31E+01	kg/mmBtu	X	5.63E+01	mmBtu/hr	X	2.20462	lb/kg	= **6,585.81**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **28,845.86**	**TPY**
CH_4	1.00E-03	kg/mmBtu	X	5.63E+01	mmBtu/hr	X	2.20462	lb/kg	= **0.12**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **0.54**	**TPY**
N_2O	1.00E-04	kg/mmBtu	X	5.63E+01	mmBtu/hr	X	2.20462	lb/kg	= **0.01**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **0.05**	**TPY**

Notes:
1) All PM (total, condensable and filterable) is assumed to be <1 micrometer in diameter. Total PM is the sum of filterable PM and condensable PM.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Heater Emissions Calculations

Unit ID: H-1B

Pollutant	Emission Factor			Capacity			Conversion			Hourly Emissions			Operating Hours			Conversion			Annual Emissions	
NOx	5.00E+01	lb/mmscf	X	2.15E-02	mmscf/hr	X	-	-	=	**1.07**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**4.70**	**TPY**
CO	8.40E+01	lb/mmscf	X	2.15E-02	mmscf/hr	X	-	-	=	**1.80**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**7.90**	**TPY**
VOC	5.50E+00	lb/mmscf	X	2.15E-02	mmscf/hr	X	-	-	=	**0.12**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.52**	**TPY**
SO_2	6.00E-01	lb/mmscf	X	2.15E-02	mmscf/hr	X	-	-	=	**0.01**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.06**	**TPY**
$PM_{10/2.5}$	1.90E+00	lb/mmscf	X	2.15E-02	mmscf/hr	X	-	-	=	**0.04**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.18**	**TPY**
PM_{COND}	5.70E+00	lb/mmscf	X	2.15E-02	mmscf/hr	X	-	-	=	**0.12**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.54**	**TPY**
PM_{TOT}	7.60E+00	lb/mmscf	X	2.15E-02	mmscf/hr	X	-	-	=	**0.16**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.72**	**TPY**
Benzene	2.10E-03	lb/mmscf	X	2.15E-02	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	2.15E-02	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	2.15E-02	mmscf/hr	X	-	-	=	**0.04**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.17**	**TPY**
Toluene	3.40E-03	lb/mmscf	X	2.15E-02	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	2.15E-02	mmscf/hr	X	-	-	=	**<0.01**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**<0.01**	**TPY**
CO_2	5.31E+01	kg/mmBtu	X	2.20E+01	mmBtu/hr	X	2.20462	lb/kg	=	**2,578.18**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**11,292.41**	**TPY**
CH_4	1.00E-03	kg/mmBtu	X	2.20E+01	mmBtu/hr	X	2.20462	lb/kg	=	**0.05**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.21**	**TPY**
N_2O	1.00E-04	kg/mmBtu	X	2.20E+01	mmBtu/hr	X	2.20462	lb/kg	=	**<0.01**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.02**	**TPY**

Notes:
1) All PM (total, condensable and filterable) is assumed to be <1 micrometer in diameter. Total PM is the sum of filterable PM and condensable PM.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Heater Emissions Calculations

Unit ID: H-2A

Pollutant	Emission Factor			Capacity			Conversion		Hourly Emissions		Operating Hours		Conversion		Annual Emissions	
NOx	5.00E+01	lb/mmscf	X	5.49E-02	mmscf/hr	X	-	-	= **2.74**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **12.02**	**TPY**
CO	8.40E+01	lb/mmscf	X	5.49E-02	mmscf/hr	X	-	-	= **4.61**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **20.19**	**TPY**
VOC	5.50E+00	lb/mmscf	X	5.49E-02	mmscf/hr	X	-	-	= **0.30**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **1.32**	**TPY**
SO_2	6.00E-01	lb/mmscf	X	5.49E-02	mmscf/hr	X	-	-	= **0.03**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **0.14**	**TPY**
$PM_{10/2.5}$	1.90E+00	lb/mmscf	X	5.49E-02	mmscf/hr	X	-	-	= **0.10**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **0.46**	**TPY**
PM_{COND}	5.70E+00	lb/mmscf	X	5.49E-02	mmscf/hr	X	-	-	= **0.31**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **1.37**	**TPY**
PM_{TOT}	7.60E+00	lb/mmscf	X	5.49E-02	mmscf/hr	X	-	-	= **0.42**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **1.83**	**TPY**
Benzene	2.10E-03	lb/mmscf	X	5.49E-02	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	5.49E-02	mmscf/hr	X	-	-	= **<0.01**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **0.02**	**TPY**
n-Hexane	1.80E+00	lb/mmscf	X	5.49E-02	mmscf/hr	X	-	-	= **0.10**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **0.43**	**TPY**
Toluene	3.40E-03	lb/mmscf	X	5.49E-02	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	5.49E-02	mmscf/hr	X	-	-	= **<0.01**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **<0.01**	**TPY**
CO_2	5.31E+01	kg/mmBtu	X	5.63E+01	mmBtu/hr	X	2.20462	lb/kg	= **6,585.81**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **28,845.86**	**TPY**
CH_4	1.00E-03	kg/mmBtu	X	5.63E+01	mmBtu/hr	X	2.20462	lb/kg	= **0.12**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **0.54**	**TPY**
N_2O	1.00E-04	kg/mmBtu	X	5.63E+01	mmBtu/hr	X	2.20462	lb/kg	= **0.01**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **0.05**	**TPY**

Notes:
1) All PM (total, condensable and filterable) is assumed to be <1 micrometer in diameter. Total PM is the sum of filterable PM and condensable PM.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Heater Emissions Calculations

Unit ID: H-2B

Pollutant	Emission Factor			Capacity			Conversion			Hourly Emissions			Operating Hours			Conversion			Annual Emissions	
NOx	5.00E+01	lb/mmscf	X	2.15E-02	mmscf/hr	X	-	-	=	**1.07**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**4.70**	**TPY**
CO	8.40E+01	lb/mmscf	X	2.15E-02	mmscf/hr	X	-	-	=	**1.80**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**7.90**	**TPY**
VOC	5.50E+00	lb/mmscf	X	2.15E-02	mmscf/hr	X	-	-	=	**0.12**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.52**	**TPY**
SO_2	6.00E-01	lb/mmscf	X	2.15E-02	mmscf/hr	X	-	-	=	**0.01**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.06**	**TPY**
$PM_{10/2.5}$	1.90E+00	lb/mmscf	X	2.15E-02	mmscf/hr	X	-	-	=	**0.04**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.18**	**TPY**
PM_{COND}	5.70E+00	lb/mmscf	X	2.15E-02	mmscf/hr	X	-	-	=	**0.12**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.54**	**TPY**
PM_{TOT}	7.60E+00	lb/mmscf	X	2.15E-02	mmscf/hr	X	-	-	=	**0.16**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.72**	**TPY**
Benzene	2.10E-03	lb/mmscf	X	2.15E-02	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	2.15E-02	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	2.15E-02	mmscf/hr	X	-	-	=	**0.04**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.17**	**TPY**
Toluene	3.40E-03	lb/mmscf	X	2.15E-02	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	2.15E-02	mmscf/hr	X	-	-	=	**<0.01**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**<0.01**	**TPY**
CO_2	5.31E+01	kg/mmBtu	X	2.20E+01	mmBtu/hr	X	2.20462	lb/kg	=	**2,578.18**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**11,292.41**	**TPY**
CH_4	1.00E-03	kg/mmBtu	X	2.20E+01	mmBtu/hr	X	2.20462	lb/kg	=	**0.05**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.21**	**TPY**
N_2O	1.00E-04	kg/mmBtu	X	2.20E+01	mmBtu/hr	X	2.20462	lb/kg	=	**<0.01**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.02**	**TPY**

Notes:
1) All PM (total, condensable and filterable) is assumed to be <1 micrometer in diameter. Total PM is the sum of filterable PM and condensable PM.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Heater Emissions Calculations

Unit ID: H-3A

Pollutant	Emission Factor			Capacity			Conversion			Hourly Emissions			Operating Hours			Conversion			Annual Emissions	
NOx	5.00E+01	lb/mmscf	X	5.96E-02	mmscf/hr	X	-	-	=	**2.98**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**13.06**	**TPY**
CO	8.40E+01	lb/mmscf	X	5.96E-02	mmscf/hr	X	-	-	=	**5.01**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**21.95**	**TPY**
VOC	5.50E+00	lb/mmscf	X	5.96E-02	mmscf/hr	X	-	-	=	**0.33**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**1.44**	**TPY**
SO_2	6.00E-01	lb/mmscf	X	5.96E-02	mmscf/hr	X	-	-	=	**0.04**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.16**	**TPY**
$PM_{10/2.5}$	1.90E+00	lb/mmscf	X	5.96E-02	mmscf/hr	X	-	-	=	**0.11**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.50**	**TPY**
PM_{COND}	5.70E+00	lb/mmscf	X	5.96E-02	mmscf/hr	X	-	-	=	**0.34**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**1.49**	**TPY**
PM_{TOT}	7.60E+00	lb/mmscf	X	5.96E-02	mmscf/hr	X	-	-	=	**0.45**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**1.99**	**TPY**
Benzene	2.10E-03	lb/mmscf	X	5.96E-02	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	5.96E-02	mmscf/hr	X	-	-	=	**<0.01**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.02**	**TPY**
n-Hexane	1.80E+00	lb/mmscf	X	5.96E-02	mmscf/hr	X	-	-	=	**0.11**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.47**	**TPY**
Toluene	3.40E-03	lb/mmscf	X	5.96E-02	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	5.96E-02	mmscf/hr	X	-	-	=	**<0.01**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**<0.01**	**TPY**
CO_2	5.31E+01	kg/mmBtu	X	6.12E+01	mmBtu/hr	X	2.20462	lb/kg	=	**7,159.00**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**31,356.42**	**TPY**
CH_4	1.00E-03	kg/mmBtu	X	6.12E+01	mmBtu/hr	X	2.20462	lb/kg	=	**0.13**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.59**	**TPY**
N_2O	1.00E-04	kg/mmBtu	X	6.12E+01	mmBtu/hr	X	2.20462	lb/kg	=	**0.01**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.06**	**TPY**

Notes:
1) All PM (total, condensable and filterable) is assumed to be <1 micrometer in diameter. Total PM is the sum of filterable PM and condensable PM.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Heater Emissions Calculations

Unit ID: H-3B

Pollutant	Emission Factor			Capacity			Conversion		Hourly Emissions		Operating Hours		Conversion		Annual Emissions	
NOx	5.00E+01	lb/mmscf	X	3.52E-02	mmscf/hr	X	-	-	= **1.76**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **7.71**	**TPY**
CO	8.40E+01	lb/mmscf	X	3.52E-02	mmscf/hr	X	-	-	= **2.96**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **12.95**	**TPY**
VOC	5.50E+00	lb/mmscf	X	3.52E-02	mmscf/hr	X	-	-	= **0.19**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **0.85**	**TPY**
SO_2	6.00E-01	lb/mmscf	X	3.52E-02	mmscf/hr	X	-	-	= **0.02**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **0.09**	**TPY**
$PM_{10/2.5}$	1.90E+00	lb/mmscf	X	3.52E-02	mmscf/hr	X	-	-	= **0.07**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **0.29**	**TPY**
PM_{COND}	5.70E+00	lb/mmscf	X	3.52E-02	mmscf/hr	X	-	-	= **0.20**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **0.88**	**TPY**
PM_{TOT}	7.60E+00	lb/mmscf	X	3.52E-02	mmscf/hr	X	-	-	= **0.27**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **1.17**	**TPY**
Benzene	2.10E-03	lb/mmscf	X	3.52E-02	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	3.52E-02	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	3.52E-02	mmscf/hr	X	-	-	= **0.06**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **0.28**	**TPY**
Toluene	3.40E-03	lb/mmscf	X	3.52E-02	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	3.52E-02	mmscf/hr	X	-	-	= **<0.01**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **<0.01**	**TPY**
CO_2	5.31E+01	kg/mmBtu	X	3.61E+01	mmBtu/hr	X	2.20462	lb/kg	= **4,222.87**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **18,496.19**	**TPY**
CH_4	1.00E-03	kg/mmBtu	X	3.61E+01	mmBtu/hr	X	2.20462	lb/kg	= **0.08**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **0.35**	**TPY**
N_2O	1.00E-04	kg/mmBtu	X	3.61E+01	mmBtu/hr	X	2.20462	lb/kg	= **0.01**	**lb/hr**	X 8,760	X	0.0005	ton/lb	= **0.03**	**TPY**

Notes:
1) All PM (total, condensable and filterable) is assumed to be <1 micrometer in diameter. Total PM is the sum of filterable PM and condensable PM.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Flare Information and Emission Factors

Equipment Information	
	FL-1
Description	Plant Flare
VOC to Flare (lb/hr)	8273.54
Stream Heat Content (Btu/scf)	1,075
Stream Net Btu Value (Btu/hr)	806,071,019
Operating Hours[1]	600
Control Efficiency	98%
Pilot Stream Heat Content (Btu/scf)	1,150
Pilot Gas Flow Rate (scfh)	372.00
Pilot Gas Capacity (mmBtu/hr)	0.428
Pilot Operating Hours	8,760

AP-42/EPA Emission Factors[2]			
	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_2	Stoichiometric	**SO_2 (lb/mmscf)**	0.6
$PM_{10/2.5}$	--	**$PM_{10/2.5}$ (lb/mmscf)**	1.9
PM_{COND}	--	**PM_{COND} (lb/mmscf)**	5.7
PM_{TOT}	--	**PM_{TOT} (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_2) (kg/mmBtu)	53.06/Mass Balance	**Carbon Dioxide (CO_2) (kg/mmBtu)**	53.06
Methane (CH_4) (kg/mmBtu)	0.001/Mass Balance	**Methane (CH_4) (kg/mmBtu)**	1.00E-03
Nitrous Oxide (N_2O) (kg/mmBtu)	1.00E-04	**Nitrous Oxide (N_2O) (kg/mmBtu)**	1.00E-04

Notes:
1) Flare operating hours are for estimation purposes only and are not intended as a limit.
2) NOx and CO emission factors (lb/mmBtu), flare stream: AP-42, Table 13.5-1 (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.
Demicks Lake Gas Plant
Flare Emissions Calculations

Unit ID: FL-1

Total: Stream + Pilot

Pollutant	Hourly Emissions		Annual Emissions	
NOx	54.85	lb/hr	16.61	TPY
CO	249.91	lb/hr	75.10	TPY
VOC	165.47	lb/hr	49.65	TPY
SO_2	0.83	lb/hr	0.25	TPY
$PM_{10/2.5}$	<0.01	lb/hr	<0.01	TPY
PM_{COND}	<0.01	lb/hr	0.01	TPY
PM_{TOT}	<0.01	lb/hr	0.01	TPY
Formaldehyde	<0.01	lb/hr	<0.01	TPY
n-Hexane	0.51	lb/hr	0.15	TPY
Benzene	0.10	lb/hr	0.03	TPY
Toluene	0.10	lb/hr	0.03	TPY
Ethylbenzene	0.01	lb/hr	<0.01	TPY
Xylenes	0.03	lb/hr	0.01	TPY
Other HAP	0.12	lb/hr	0.04	TPY
CO_2	95,737.46	lb/hr	28,925.41	TPY
CH_4	522.34	lb/hr	156.71	TPY
N_2O	0.18	lb/hr	0.05	TPY

Stream Emissions

Pollutant	Emission Factor			Capacity			Conversion			Hourly Emissions		Operating Hours[1]		Conversion			Annual Emissions	
NOx	6.80E-02	lb/mmBtu	X	8.06E+02	mmBtu/hr	X	-	-	=	54.81	lb/hr	X 600	X	0.0005	ton/lb	=	16.44	TPY
CO	3.10E-01	lb/mmBtu	X	8.06E+02	mmBtu/hr	X	-	-	=	249.88	lb/hr	X 600	X	0.0005	ton/lb	=	74.96	TPY
VOC	-	-	-	-	-	-	-	-	=	165.47	lb/hr	X 600	X	0.0005	ton/lb	=	49.64	TPY
SO_2	-	-	-	-	-	-	-	-	=	0.83	lb/hr	X 600	X	0.0005	ton/lb	=	0.25	TPY
n-Hexane	-	-	-	-	-	-	-	-	=	0.51	lb/hr	X 600	X	0.0005	ton/lb	=	0.15	TPY
Benzene	-	-	-	-	-	-	-	-	=	0.10	lb/hr	X 600	X	0.0005	ton/lb	=	0.03	TPY
Toluene	-	-	-	-	-	-	-	-	=	0.10	lb/hr	X 600	X	0.0005	ton/lb	=	0.03	TPY
Ethylbenzene	-	-	-	-	-	-	-	-	=	0.01	lb/hr	X 600	X	0.0005	ton/lb	=	<0.01	TPY
Xylenes	-	-	-	-	-	-	-	-	=	0.03	lb/hr	X 600	X	0.0005	ton/lb	=	0.01	TPY
Other HAP	-	-	-	-	-	-	-	-	=	0.12	lb/hr	X 600	X	0.0005	ton/lb	=	0.04	TPY
CO_2	5.31E+01	kg/mmBtu	X	8.06E+02	mmBtu/hr	X	2.20462	lb/kg	=	94,291.88	lb/hr	X 600	X	0.0005	ton/lb	=	28,287.56	TPY
CO_2	-	-	-	-	-	-	-	-	=	1,395.54	lb/hr	X 600	X	0.0005	ton/lb	=	418.66	TPY
CH_4	1.00E-03	kg/mmBtu	X	8.06E+02	mmBtu/hr	X	2.20462	lb/kg	=	1.78	lb/hr	X 600	X	0.0005	ton/lb	=	0.53	TPY
CH_4	-	-	-	-	-	-	-	-	=	520.56	lb/hr	X 600	X	0.0005	ton/lb	=	156.17	TPY
N_2O	1.00E-04	kg/mmBtu	X	8.06E+02	mmBtu/hr	X	2.20462	lb/kg	=	0.18	lb/hr	X 600	X	0.0005	ton/lb	=	0.05	TPY

Note:

1) Flare operating hours are for estimation purposes only and are not intended as a limit.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Flare Emissions Calculations (Continued)

Pilot Emissions

Pollutant	Emission Factor			Capacity			Conversion			Hourly Emissions			Operating Hours			Conversion			Annual Emissions	
NOx	1.00E+02	lb/mmscf	X	3.72E-04	mmscf/hr	X	-	-	=	**0.04**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.16**	**TPY**
CO	8.40E+01	lb/mmscf	X	3.72E-04	mmscf/hr	X	-	-	=	**0.03**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.14**	**TPY**
VOC	5.50E+00	lb/mmscf	X	3.72E-04	mmscf/hr	X	-	-	=	**<0.01**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.01**	**TPY**
SO_2	6.00E-01	lb/mmscf	X	3.72E-04	mmscf/hr	X	-	-	=	**<0.01**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**<0.01**	**TPY**
$PM_{10/2.5}$	1.90E+00	lb/mmscf	X	3.72E-04	mmscf/hr	X	-	-	=	**<0.01**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**<0.01**	**TPY**
PM_{COND}	5.70E+00	lb/mmscf	X	3.72E-04	mmscf/hr	X	-	-	=	**<0.01**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.01**	**TPY**
PM_{TOT}	7.60E+00	lb/mmscf	X	3.72E-04	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	3.72E-04	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	3.72E-04	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	3.72E-04	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	3.72E-04	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	3.72E-04	mmscf/hr	X	-	-	=	**<0.01**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**<0.01**	**TPY**
CO_2	5.31E+01	kg/mmBtu	X	4.28E-01	mmBtu/hr	X	2.20462	lb/kg	=	**50.04**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**219.19**	**TPY**
CH_4	1.00E-03	kg/mmBtu	X	4.28E-01	mmBtu/hr	X	2.20462	lb/kg	=	**<0.01**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**<0.01**	**TPY**
N_2O	1.00E-04	kg/mmBtu	X	4.28E-01	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.
Demicks Lake Gas Plant
Flare Emissions Calculations - Flare Stream Analysis

Unit ID: **FL-1**

Component	Molecular Weight	Stream 1 Inlet Gas		Stream 3 Residue Gas		Total Streams Burned in Flare					Net Heating Value	Net Btu Rate
		150,000,000	scf/yr	300,000,000	scf/yr							
		250000.00	scfh	500000.00	scfh	Uncontrolled		scfd	Controlled			
		Mole %	lb/hr	Mole %	lb/hr	lb/hr	TPY		lb/hr	TPY	Btu/scf	Btu/hr
Water	18.0153	0.000%	0.00	0.000%	0.00	0.00	0.00	0	0.00	0.00	0.00	0
Hydrogen Sulfide	34.081	0.002%	0.45	0.000%	0.00	0.45	0.13	120	0.01	0.00	586.80	2,934
Carbon Dioxide	44.010	0.812%	235.56	2.000%	1159.98	1395.54	418.66	288,738	1395.54	418.66	0.00	0
Nitrogen	28.013	2.475%	456.90	0.000%	0.00	456.90	137.07	148,512	456.90	137.07	0.00	0
Helium	4.003	0.000%	0.00	0.000%	0.00	0.00	0.00	0	0.00	0.00	0.00	0
Oxygen	31.999	0.000%	0.00	0.000%	0.00	0.00	0.00	0	0.00	0.00	0.00	0
Methane	16.043	60.224%	6366.21	93.000%	19661.91	26028.12	7808.44	14,773,362	520.56	156.17	909.40	559,787,308
Ethane	30.069	20.335%	4028.98	0.000%	0.00	4028.98	1208.69	1,220,070	80.58	24.17	1,618.70	82,288,638
Propane	44.096	10.511%	3054.00	5.000%	2905.61	5959.62	1787.89	1,230,642	119.19	35.76	2,314.90	118,700,549
i-Butane	58.122	1.112%	425.77	0.000%	0.00	425.77	127.73	66,702	8.52	2.55	3,000.40	8,338,862
n-Butane	58.122	3.251%	1245.25	0.000%	0.00	1245.25	373.57	195,084	24.90	7.47	3,010.80	24,473,288
i-Pentane	72.149	0.416%	197.58	0.000%	0.00	197.58	59.27	24,936	3.95	1.19	3,699.00	3,843,261
n-Pentane	72.149	0.564%	268.13	0.000%	0.00	268.13	80.44	33,840	5.36	1.61	3,706.90	5,226,729
n-Hexane	86.175	0.045%	25.29	0.000%	0.00	25.29	7.59	2,672	0.51	0.15	4,403.80	490,283
Other Hexanes	86.175	0.192%	109.17	0.000%	0.00	109.17	32.75	11,535	2.18	0.66	4,403.80	2,116,602
Heptanes	100.202	0.021%	13.66	0.000%	0.00	13.66	4.10	1,241	0.27	0.08	5,100.00	263,741
Benzene	78.114	0.010%	5.13	0.000%	0.00	5.13	1.54	598	0.10	0.03	3,590.90	89,471
Toluene	92.141	0.009%	5.21	0.000%	0.00	5.21	1.56	515	0.10	0.03	4,273.60	91,683
Ethylbenzene	106.167	0.000%	0.29	0.000%	0.00	0.29	0.09	25	0.01	0.00	4,970.50	5,238
Xylenes	106.167	0.002%	1.52	0.000%	0.00	1.52	0.45	130	0.03	0.01	4,957.10	26,866
Octanes	114.229	0.014%	10.88	0.000%	0.00	10.88	3.26	867	0.22	0.07	5,796.00	209,421
2,2,4-Trimethylpentane	114.231	0.008%	6.05	0.000%	0.00	6.05	1.82	482	0.12	0.04	5,778.80	116,145
Nonanes	128.255	0.000%	0.00	0.000%	0.00	0.00	0.00	0	0.00	0.00	6,493.20	0
Decanes	142.282	0.000%	0.00	0.000%	0.00	0.00	0.00	0	0.00	0.00	7,189.60	0
Totals =		**100.0%**	**16456.02**	**100.0%**	**23727.51**	**40183.53**	**12055.06**	**18,000,072**	**--**	**--**	**--**	**806,071,019**
Total VOC =		**16.155%**	**5367.93**	**5.000%**	**2905.61**	**8273.54**	**2482.06**	**--**	**165.47**	**49.64**	**Heat Value (Btu/scf)**	**1,075**
					Total HAP =	**43.49**	**13.05**	**--**	**0.87**	**0.26**		
					Total H_2S=	**0.45**	**0.13**	**--**	**0.01**	**0.00**		
							MW of Stream =	**20.33**				

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Tank Blanket Gas Emissions Calculations[1]

Component	Molecular Weight	Stream 4 Flash Gas	Uncontrolled Emissions		Controlled Emissions
		Mole %	scf/yr[2]	TPY[3]	TPY[4]
Hydrogen Sulfide	34.081	0.000%	0	0.00	0.00
Carbon Dioxide	44.010	0.554%	47,090	2.73	0.05
Nitrogen	28.013	0.000%	0	0.00	0.00
Helium	4.003	0.000%	0	0.00	0.00
Oxygen	31.999	0.000%	0	0.00	0.00
Methane	16.043	16.800%	1,428,000	30.19	0.60
Ethane	30.069	32.100%	2,728,500	108.12	2.16
Propane	44.096	29.600%	2,516,000	146.21	2.92
i-Butane	58.122	3.250%	276,250	21.16	0.42
n-Butane	58.122	11.000%	935,000	71.62	1.43
i-Pentane	72.149	1.970%	167,450	15.92	0.32
n-Pentane	72.149	3.000%	255,000	24.25	0.48
n-Hexane	86.175	1.010%	85,850	9.75	0.19
Other Hexanes	86.175	0.000%	0	0.00	0.00
Heptanes	100.202	0.555%	47,175	6.23	0.12
Benzene	78.114	0.042%	3,579	0.37	0.01
Toluene	92.141	0.025%	2,108	0.26	0.01
Ethylbenzene	106.167	0.004%	303	0.04	<0.01
Xylenes	106.167	0.013%	1,088	0.15	<0.01
Octanes	114.229	0.137%	11,645	1.75	0.04
2,2,4-Trimethylpentane	114.231	0.000%	0	0.00	0.00
Nonanes	128.255	0.020%	1,675	0.28	0.01
Decanes	142.282	0.000%	0	0.00	0.00
Totals =		100.079%	**8,506,712**	**439.04**	**8.78**
Total VOC =			**4,303,122**	**297.99**	**5.96**
Total HAP =			**92,927**	**10.57**	**0.21**

Estimated Annual Volume 8,500,000 scf/yr
Molar volume conversion @60° F and 1 atm: 1 lb/mole = 379.4 scf

Notes:
1) Condensate tanks contain stabilized condensate held at 25 psig by tank blanket gas. Tanks have relief valves that vent during various upset conditions. The gas vented would be a mixture of tank vapors and blanket (residue) gas. Flash gas composition used for emissions calculations for a conservative estimate. Annual vented volume is an overestimate of emissions.
2) Calculated as follows: Total Losses scf/yr * mol% of component.
3) Calculated as follows: component scf/yr / 379.4 molar volume conversion * MW component / 2000 lb/ton.
4) Vented emissions are routed to the flare for 98% destruction efficiency. Uncontrolled vs. controlled emissions shown here to demonstrate combined tank emissions are less than 6 TPY and that the tanks are not subject to NSPS OOOOa. Emissions reported at the flare.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Tank Information

Equipment Information	
	WTK-1A, -1B, -2A, -2B
Contents[1]	Slop Water
Number of Tanks	4
Capacity (bbl)	400
Capacity (gal)	16,800
Total Throughput (bbl/yr)	150,000
Total Throughput (gal/yr)	6,300,000
Per Tank Throughput (bbl/yr)	37,500
Per Tank Throughput (gal/yr)	1,575,000
Working Losses (lb/yr)[2]	196.58
Breathing Losses (lb/yr)[2]	53.06
Control Type	None

Notes:
1) Working and breathing calculated using EPA TANKS 4.0.9d assuming 5% of throughput as condensate, modeled as Gasoline RVP 10. Tanks are assumed to have negligible flash emissions.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Slop Water Tank Emissions Calculations

Unit ID: WTK-1A, -1B, -2A, -2B (Each)

Uncontrolled Emissions

Pollutant	Working Losses			Breathing Losses			Annual Emissions			Operating Hours		Conversion			Hourly Emissions[1]	
VOC[2]	0.10	TPY	+	0.03	TPY	=	**0.12**	**TPY**	/	8,760	X	2,000	lb/ton	=	**0.03**	**lb/hr**
n-Hexane	<0.01	TPY	+	<0.01	TPY	=	**<0.01**	**TPY**	/	8,760	X	2,000	lb/ton	=	**<0.01**	**lb/hr**
Benzene	<0.01	TPY	+	<0.01	TPY	=	**<0.01**	**TPY**	/	8,760	X	2,000	lb/ton	=	**<0.01**	**lb/hr**
Toluene	<0.01	TPY	+	<0.01	TPY	=	**<0.01**	**TPY**	/	8,760	X	2,000	lb/ton	=	**<0.01**	**lb/hr**
Ethylbenzene	<0.01	TPY	+	<0.01	TPY	=	**<0.01**	**TPY**	/	8,760	X	2,000	lb/ton	=	**<0.01**	**lb/hr**
Xylenes	<0.01	TPY	+	<0.01	TPY	=	**<0.01**	**TPY**	/	8,760	X	2,000	lb/ton	=	**<0.01**	**lb/hr**
Other HAP	<0.01	TPY	+	<0.01	TPY	=	**<0.01**	**TPY**	/	8,760	X	2,000	lb/ton	=	**<0.01**	**lb/hr**
CO_2[3]	-	TPY	+	-	TPY	=	**0.00**	**TPY**	/	8,760	X	2,000	lb/ton	=	**0.00**	**lb/hr**
CH_4[3]	-	TPY	+	-	TPY	=	**0.00**	**TPY**	/	8,760	X	2,000	lb/ton	=	**0.00**	**lb/hr**

Estimated HAP Composition (% by Weight)[4]

Pollutant	Wt%
n-Hexane	1.600%
Benzene	0.900%
Toluene	1.300%
Ethylbenzene	0.100%
Xylenes	0.500%
Other HAP	0.900%
Total HAP =	**5.300%**

Notes:
1) Due to variable short-term emission rates, average lb/hr based on annual emissions shown for reference only.
2) VOC TPY working and breathing losses calculated from lb/yr TANKS 4.0.9d results as follows: lb/yr * 1/2000 = TPY.
3) Per API Chapter 5: CH_4 and CO_2 emissions from crude storage tanks occur mainly as a result of flashing; working and breathing loss emissions of these gases are very small in production and virtually non-existent in downstream segments. Unless site-specific data indicate otherwise, working and breathing losses are presumed to contain no CH_4 or CO_2 .
4) Table 11.3-2, "HAP Percent of VOC Emissions," Gasoline Marketing (Stage I and Stage II), EPA Document Revised Final 1/2001.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Truck Loading Information

Equipment Information	
	TL-1
Contents Loaded	Condensate
Fill Method	Submerged
Type of Service	Dedicated
Mode of Operation	Normal
Saturation Factor	0.6
Throughput (1000 gal/yr)	11,529
Throughput (10^6 gal/yr)	11.529
Maximum Loading Rate (gal/hr)	7,500
P=True Vapor Pressure of Liquid Loaded (avg. psia)[1]	8.7119
M=Molecular Weight of Vapor (lb/lb-mol)[1]	53.5810
T= Temperature of Bulk Liquid Loaded (average °F)[1]	43.67
T = Temperature of bulk liquid loaded (°F + 460 = °R)	503.67
Annual Emission Factor (lb/1000 gal)[2]	6.93
TOC Emission Factor (tonne/10^6 gal)[3]	0.91
TOC Emission Factor (ton/10^6 gal)[3]	1.00
Condensate CH_4 wt%	12.913%
Condensate CO_2 wt%	0.767%
Control Type	Vapor Return/Combustor
Capture Efficiency[4]	70%
Control Efficiency	98%

Notes:

1) Properties based on EPA TANKS 4.0.9d with conservative "ONEOK" composition. Note that the condensate will be stabilized in the stabilization system, so expected RVP is closer to 5-6.

2) AP-42 5.2-4 Eq.1: Loading Loss (lb/1000 gal) = 12.46 *S*P*M/T.

3) API Compendium of Greenhouse Gas Emissions Methodologies for the Oil and Gas Industry, Table 5-12. Emission factor converted as follows: tonne/10^6 gal * 1.10231131 ton/tonne.

4) Emissions that are captured by the vapor return collection system are routed to the combustor. Per AP-42 5.2-6, 70% capture efficiency can be assumed for trucks not subject to NSPS or NESHAP.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Condensate Truck Loading Emissions Calculations

Unit ID: TL-1

Uncontrolled Emissions

Pollutant	Emission Factor			Throughput			Conversion			Annual Emissions			Operating Hours			Conversion			Average Hourly Emissions[1]	
VOC	6.93	lb/1000 gal	X	11,529	1000 gal/yr	X	0.0005	ton/lb	=	**39.94**	**TPY**	/	8,760	X	2,000	lb/ton	=	**9.12**	**lb/hr**
n-Hexane	-	-	-	-	-	-	-	-	=	**0.64**	**TPY**	/	8,760	X	2,000	lb/ton	=	**0.15**	**lb/hr**
Benzene	-	-	-	-	-	-	-	-	=	**0.36**	**TPY**	/	8,760	X	2,000	lb/ton	=	**0.08**	**lb/hr**
Toluene	-	-	-	-	-	-	-	-	=	**0.52**	**TPY**	/	8,760	X	2,000	lb/ton	=	**0.12**	**lb/hr**
Ethylbenzene	-	-	-	-	-	-	-	-	=	**0.04**	**TPY**	/	8,760	X	2,000	lb/ton	=	**0.01**	**lb/hr**
Xylenes	-	-	-	-	-	-	-	-	=	**0.20**	**TPY**	/	8,760	X	2,000	lb/ton	=	**0.05**	**lb/hr**
Other HAP	-	-	-	-	-	-	-	-	=	**0.36**	**TPY**	/	8,760	X	2,000	lb/ton	=	**0.08**	**lb/hr**
CO_2	1.00	ton/10^6 gal	X	11.529	10^6 gal/yr	X	0.767%	Wt%	=	**0.09**	**TPY**	/	8,760	X	2,000	lb/ton	=	**0.02**	**lb/hr**
CH_4	1.00	ton/10^6 gal	X	11.529	10^6 gal/yr	X	12.913%	Wt%	=	**1.49**	**TPY**	/	8,760	X	2,000	lb/ton	=	**0.34**	**lb/hr**

Uncaptured Emissions[2]

Pollutant	Annual Emissions			Operating Hours			Conversion		Average Hourly Emissions[1]	
VOC	=	**11.98**	**TPY**	/	8,760	X	2,000	lb/ton	= **2.74**	**lb/hr**
n-Hexane	=	**0.19**	**TPY**	/	8,760	X	2,000	lb/ton	= **0.04**	**lb/hr**
Benzene	=	**0.11**	**TPY**	/	8,760	X	2,000	lb/ton	= **0.02**	**lb/hr**
Toluene	=	**0.16**	**TPY**	/	8,760	X	2,000	lb/ton	= **0.04**	**lb/hr**
Ethylbenzene	=	**0.01**	**TPY**	/	8,760	X	2,000	lb/ton	= **<0.01**	**lb/hr**
Xylenes	=	**0.06**	**TPY**	/	8,760	X	2,000	lb/ton	= **0.01**	**lb/hr**
Other HAP	=	**0.11**	**TPY**	/	8,760	X	2,000	lb/ton	= **0.02**	**lb/hr**
CO_2	=	**0.03**	**TPY**	/	8,760	X	2,000	lb/ton	= **0.01**	**lb/hr**
CH_4	=	**0.45**	**TPY**	/	8,760	X	2,000	lb/ton	= **0.10**	**lb/hr**

Estimated HAP Composition (% by Weight)[2]

Pollutant	Wt%
n-Hexane	1.600%
Benzene	0.900%
Toluene	1.300%
Ethylbenzene	0.100%
Xylenes	0.500%
Other HAP	0.900%
Total HAP =	**5.300%**

Notes:
1) Due to variable short-term emission rates, average lb/hr rate shown for reference only.
2) Table 11.3-2, "HAP Percent of VOC Emissions," Gasoline Marketing (Stage I and Stage II), EPA Document Revised Final 1/2001.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Combustor Information and Emission Factors

Equipment Information	
	COMB-1
Description	Combustor
VOC to Flare (lb/hr)	6.39
Stream Heat Content (Btu/scf)	1,698
Stream Net Btu Value (Btu/hr)	254,631
Operating Hours	8,760
Control Efficiency	98%
Pilot Stream Heat Content (Btu/scf)	1,150
Pilot Gas Flow Rate (scfh)	1,260.00
Pilot Gas Capacity (mmBtu/hr)	1.45
Pilot Operating Hours	8,760

AP-42/EPA Emission Factors[2]			
	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_2	Stoichiometric	**SO_2 (lb/mmscf)**	0.6
$PM_{10/2.5}$	--	**$PM_{10/2.5}$ (lb/mmscf)**	1.9
PM_{COND}	--	**PM_{COND} (lb/mmscf)**	5.7
PM_{TOT}	--	**PM_{TOT} (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_2) (kg/mmBtu)	53.06/Mass Balance	**Carbon Dioxide (CO_2) (kg/mmBtu)**	53.06
Methane (CH_4) (kg/mmBtu)	0.001/Mass Balance	**Methane (CH_4) (kg/mmBtu)**	1.00E-03
Nitrous Oxide (N_2O) (kg/mmBtu)	1.00E-04	**Nitrous Oxide (N_2O) (kg/mmBtu)**	1.00E-04

Notes:
1) NOx and CO emission factors (lb/mmBtu), flare stream: AP-42, Table 13.5-1 (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.
Demicks Lake Gas Plant
Combustor Emissions Calculations

Unit ID: COMB-1

Total: Stream + Pilot

Pollutant	Hourly Emissions		Annual Emissions	
NOx	0.14	lb/hr	0.63	TPY
CO	0.18	lb/hr	0.81	TPY
VOC	0.01	lb/hr	0.03	TPY
SO_2	<0.01	lb/hr	<0.01	TPY
$PM_{10/2.5}$	<0.01	lb/hr	0.01	TPY
PM_{COND}	0.01	lb/hr	0.03	TPY
PM_{TOT}	0.01	lb/hr	0.04	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
Other HAP	<0.01	lb/hr	<0.01	TPY
CO_2	199.36	lb/hr	873.18	TPY
CH_4	0.05	lb/hr	0.20	TPY
N_2O	<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	2.55E-01	mmBtu/hr	X	-	-	=	0.02	lb/hr	X	8,760	X	0.0005	ton/lb	=	0.08	TPY
CO	3.10E-01	lb/mmBtu	X	2.55E-01	mmBtu/hr	X	-	-	=	0.08	lb/hr	X	8,760	X	0.0005	ton/lb	=	0.35	TPY
SO_2	-	-	-	-	-	-	-	-	=	0.00	lb/hr	X	8,760	X	0.0005	ton/lb	=	0.00	TPY
CO_2	5.31E+01	kg/mmBtu	X	2.55E-01	mmBtu/hr	X	2.20462	lb/kg	=	29.79	lb/hr	X	8,760	X	0.0005	ton/lb	=	130.46	TPY
CO_2	-	-	-	-	-	-	-	-	=	0.07	lb/hr	X	8,760	X	0.0005	ton/lb	=	0.31	TPY
CH_4	1.00E-03	kg/mmBtu	X	2.55E-01	mmBtu/hr	X	2.20462	lb/kg	=	<0.01	lb/hr	X	8,760	X	0.0005	ton/lb	=	<0.01	TPY
CH_4	-	-	-	-	-	-	-	-	=	0.04	lb/hr	X	8,760	X	0.0005	ton/lb	=	0.19	TPY
N_2O	1.00E-04	kg/mmBtu	X	2.55E-01	mmBtu/hr	X	2.20462	lb/kg	=	<0.01	lb/hr	X	8,760	X	0.0005	ton/lb	=	<0.01	TPY

Combustor Emissions Calculations (Continued)

Pilot Emissions

Pollutant	Emission Factor			Capacity			Conversion			Hourly Emissions			Operating Hours			Conversion			Annual Emissions	
NOx	1.00E+02	lb/mmscf	X	1.26E-03	mmscf/hr	X	-	-	=	0.13	lb/hr	X	8,760	X	0.0005	ton/lb	=	0.55	TPY
CO	8.40E+01	lb/mmscf	X	1.26E-03	mmscf/hr	X	-	-	=	0.11	lb/hr	X	8,760	X	0.0005	ton/lb	=	0.46	TPY
VOC	5.50E+00	lb/mmscf	X	1.26E-03	mmscf/hr	X	-	-	=	0.01	lb/hr	X	8,760	X	0.0005	ton/lb	=	0.03	TPY
SO_2	6.00E-01	lb/mmscf	X	1.26E-03	mmscf/hr	X	-	-	=	<0.01	lb/hr	X	8,760	X	0.0005	ton/lb	=	<0.01	TPY
$PM_{10/2.5}$	1.90E+00	lb/mmscf	X	1.26E-03	mmscf/hr	X	-	-	=	<0.01	lb/hr	X	8,760	X	0.0005	ton/lb	=	0.01	TPY
PM_{COND}	5.70E+00	lb/mmscf	X	1.26E-03	mmscf/hr	X	-	-	=	0.01	lb/hr	X	8,760	X	0.0005	ton/lb	=	0.03	TPY
PM_{TOT}	7.60E+00	lb/mmscf	X	1.26E-03	mmscf/hr	X	-	-	=	0.01	lb/hr	X	8,760	X	0.0005	ton/lb	=	0.04	TPY
Formaldehyde	7.50E-02	lb/mmscf	X	1.26E-03	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	1.26E-03	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	1.26E-03	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	1.26E-03	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	1.26E-03	mmscf/hr	X	-	-	=	<0.01	lb/hr	X	8,760	X	0.0005	ton/lb	=	<0.01	TPY
CO_2	5.31E+01	kg/mmBtu	X	1.45E+00	mmBtu/hr	X	2.20462	lb/kg	=	169.50	lb/hr	X	8,760	X	0.0005	ton/lb	=	742.41	TPY
CH_4	1.00E-03	kg/mmBtu	X	1.45E+00	mmBtu/hr	X	2.20462	lb/kg	=	<0.01	lb/hr	X	8,760	X	0.0005	ton/lb	=	0.01	TPY
N_2O	1.00E-04	kg/mmBtu	X	1.45E+00	mmBtu/hr	X	2.20462	lb/kg	=	<0.01	lb/hr	X	8,760	X	0.0005	ton/lb	=	<0.01	TPY

1) Condensate tank emissions are routed to the combustor. Unburned VOC and HAP reported at the tanks. Pilot VOC and HAP reported at the combustor.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Combustor Emissions Calculations - Stream Analysis

Unit ID: **COMB-1**

Component	Molecular Weight	Captured Truck Loading Emissions		Total Streams Burned in Combustor					Net Heating Value	Net Btu Rate
		12.62	55.27	Uncontrolled		scfd	Controlled			
		lb/hr	TPY	lb/hr	TPY		lb/hr	TPY	Btu/scf	Btu/hr
Water	18.0153	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
Hydrogen Sulfide	34.081	0.00	0.00	0.00	0.00	0	0.00	0.00	586.80	0
Carbon Dioxide	44.010	0.07	0.31	0.07	0.31	14	0.07	0.31	0.00	0
Nitrogen	28.013	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
Helium	4.003	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
Oxygen	31.999	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
Methane	16.043	2.12	9.29	2.12	9.29	1,203	0.04	0.19	909.40	45,593
Ethane	30.069	4.05	17.74	4.05	17.74	1,227	0.08	0.35	1,618.70	82,729
Propane	44.096	3.74	16.36	3.74	16.36	771	0.07	0.33	2,314.90	74,394
i-Butane	58.122	0.41	1.80	0.41	1.80	64	0.01	0.04	3,000.40	8,032
n-Butane	58.122	1.39	6.08	1.39	6.08	217	0.03	0.12	3,010.80	27,280
i-Pentane	72.149	0.25	1.09	0.25	1.09	31	0.00	0.02	3,699.00	4,835
n-Pentane	72.149	0.38	1.66	0.38	1.66	48	0.01	0.03	3,706.90	7,379
n-Hexane	86.175	0.13	0.56	0.13	0.56	13	0.00	0.01	4,403.80	2,471
Other Hexanes	86.175	0.00	0.00	0.00	0.00	0	0.00	0.00	4,403.80	0
Heptanes	100.202	0.07	0.31	0.07	0.31	6	0.00	0.01	5,100.00	1,352
Benzene	78.114	0.01	0.02	0.01	0.02	1	0.00	0.00	3,590.90	93
Toluene	92.141	0.00	0.01	0.00	0.01	0	0.00	0.00	4,273.60	55
Ethylbenzene	106.167	0.00	0.00	0.00	0.00	0	0.00	0.00	4,970.50	8
Xylenes	106.167	0.00	0.01	0.00	0.01	0	0.00	0.00	4,957.10	29
Octanes	114.229	0.02	0.08	0.02	0.08	1	0.00	0.00	5,796.00	333
2,2,4-Trimethylpentane	114.231	0.00	0.00	0.00	0.00	0	0.00	0.00	5,778.80	0
Nonanes	128.255	0.00	0.01	0.00	0.01	0	0.00	0.00	6,493.20	48
Decanes	142.282	0.00	0.00	0.00	0.00	0	0.00	0.00	7,189.60	0
Totals =		**12.63**	**55.31**	**12.63**	**55.31**	**3,599**	**--**	**--**	**--**	**254,631**
Total VOC =		**6.39**	**27.98**	**6.39**	**27.98**	**--**	**0.13**	**0.56**	**Heat Value (Btu/scf)**	**1,698**
			Total HAP =	**0.14**	**0.60**	**--**	**0.00**	**0.01**		
			Total H_2S=	**0.00**	**0.00**	**--**	**0.00**	**0.00**		
					MW of Stream =	**31.95**				

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Methanol Tank Information

Equipment Information	
	MTK-1, -2, -3
Contents	Methanol
Number of Tanks	3
Capacity (bbl)	300
Capacity (gal)	12,600
Per Tank Throughput (bbl/yr)	15,600
Per Tank Throughput (gal/yr)	655,200
Working Losses (lb/yr)[2]	316.55
Breathing Losses (lb/yr)[2]	106.45
Control Type	None

Notes:
1) Working and breathing calculated using EPA TANKS 4.0.9d. See attached reports and following table.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Methanol Tank Emissions Calculations

Unit ID: MTK-1, -2, -3 (EACH)

Uncontrolled Emissions

Pollutant	Working Losses			Breathing Losses			Annual Emissions			Operating Hours		Conversion			Hourly Emissions[1]	
VOC/Methanol [2]	0.16	TPY	+	0.05	TPY	=	**0.21**	**TPY**	/	8,760	X	2,000	lb/ton	=	**0.05**	**lb/hr**

Notes:
1) Due to variable short-term emission rates, average lb/hr based on annual emissions shown for reference only.
2) VOC TPY working and breathing losses calculated from lb/yr TANKS 4.0.9d results as follows: lb/yr * 1/2000 = TPY.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Fugitive Equipment Data and Emission Factors - Components Not Subject to NSPS KKK or OOOOa

Equipment Information - Gas Service							TOC Emissions											
Component	Count[1]		Emission Factor[2]			Control Efficiency		Hourly Emissions			Operating Hours			Conversion			Annual Emissions	
Valves - Gas	1407	X	9.92E-03	lb/hr/source	X	0.00%	=	13.96	lb/hr	X	8,760	X	0.0005	ton/lb	=	61.14	TPY
Flanges - Gas	4,572	X	8.60E-04	lb/hr/source	X	0.00%	=	3.93	lb/hr	X	8,760	X	0.0005	ton/lb	=	17.22	TPY
Relief Valves - Gas	0	X	1.94E-02	lb/hr/source	X	0.00%	=	0.00	lb/hr	X	8,760	X	0.0005	ton/lb	=	0.00	TPY
Compressor Seals - Gas	68	X	1.94E-02	lb/hr/source	X	0.00%	=	1.32	lb/hr	X	8,760	X	0.0005	ton/lb	=	5.78	TPY

Notes:
1) Emission Factor Source: EPA-453/R-95-017. TOC multiplied by pollutant content of streams (weight %) to obtain pollutant emissions.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Fugitive Emissions Calculations - Components Not Subject to NSPS KKK or OOOOa

Component	VOC Emissions				CO_2 Emissions				CH_4 Emissions				H_2S Emissions			
Valves - Gas	1.80	lb/hr	7.87	TPY	0.68	lb/hr	2.99	TPY	12.16	lb/hr	53.27	TPY	<0.01	lb/hr	<0.01	TPY
Flanges - Gas	0.51	lb/hr	2.22	TPY	0.19	lb/hr	0.84	TPY	3.42	lb/hr	15.00	TPY	<0.01	lb/hr	<0.01	TPY
Relief Valves - Gas	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY
Compressor Seals - Gas	0.17	lb/hr	0.74	TPY	0.06	lb/hr	0.28	TPY	1.15	lb/hr	5.03	TPY	<0.01	lb/hr	<0.01	TPY
Total	**2.47**	**lb/hr**	**10.83**	**TPY**	**0.94**	**lb/hr**	**4.11**	**TPY**	**16.74**	**lb/hr**	**73.30**	**TPY**	**<0.01**	**lb/hr**	**<0.01**	**TPY**

Component	n-Hexane Emissions				Benzene Emissions				Toluene Emissions				Ethylbenzene Emissions				Xylene Emissions				2,2,4-Trimethylpentane Emissions			
Valves - Gas	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY
Flanges - Gas	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY
Relief Valves - Gas	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY
Compressor Seals - Gas	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY
Total	**0.00**	**lb/hr**	**0.00**	**TPY**	**0.00**	**lb/hr**	**0.00**	**TPY**	**0.00**	**lb/hr**	**0.00**	**TPY**	**0.00**	**lb/hr**	**0.00**	**TPY**	**0.00**	**lb/hr**	**0.00**	**TPY**	**0.00**	**lb/hr**	**0.00**	**TPY**

Notes:
1) TOC from previous table multiplied by pollutant content of streams (weight%) to obtain pollutant emissions. See attached analyses table.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Fugitive Equipment Data and Emission Factors - Components Subject to NSPS OOOOa, OOOOb

Equipment Information - Gas Service							TOC Emissions											
Component	Count[1]		Emission Factor[2]		Control Efficiency			Hourly Emissions		Operating Hours		Conversion			Annual Emissions	
Valves - Gas	5,157	X	9.92E-03	lb/hr/source	X	75.00%	=	12.79	lb/hr	X	8,760	X	0.0005	ton/lb	=	56.02	TPY
Flanges - Gas	16,760	X	8.60E-04	lb/hr/source	X	30.00%	=	10.09	lb/hr	X	8,760	X	0.0005	ton/lb	=	44.18	TPY
Relief Valves - Gas	177	X	1.94E-02	lb/hr/source	X	0.00%	=	3.43	lb/hr	X	8,760	X	0.0005	ton/lb	=	15.04	TPY
Connectors - Gas	12,357	X	4.41E-04	lb/hr/source	X	30.00%	=	3.81	lb/hr	X	8,760	X	0.0005	ton/lb	=	16.70	TPY
Compressor Seals - Gas	30	X	1.94E-02	lb/hr/source	X	75.00%	=	0.15	lb/hr	X	8,760	X	0.0005	ton/lb	=	0.64	TPY

Equipment Information - Liquid Service							TOC Emissions											
Component	Count[1]		Emission Factor[2]		Control Efficiency			Hourly Emissions		Operating Hours		Conversion			Annual Emissions	
Valves - Light Oil	2,813	X	5.51E-03	lb/hr/source	X	75.00%	=	3.88	lb/hr	X	8,760	X	0.0005	ton/lb	=	16.98	TPY
Flanges - Light Oil	9,143	X	2.43E-04	lb/hr/source	X	30.00%	=	1.55	lb/hr	X	8,760	X	0.0005	ton/lb	=	6.80	TPY
Pump Seals - Light Oil	53	X	2.87E-02	lb/hr/source	X	75.00%	=	0.38	lb/hr	X	8,760	X	0.0005	ton/lb	=	1.66	TPY
Connectors - Light Oil	12,345	X	4.63E-04	lb/hr/source	X	30.00%	=	4.00	lb/hr	X	8,760	X	0.0005	ton/lb	=	17.52	TPY

Notes:
1) Emission Factor Source: EPA-453/R-95-017. TOC multiplied by pollutant content of streams (weight %) to obtain pollutant emissions.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Fugitive Emissions Calculations - Components Subject to NSPS OOOOa, OOOOb

Component	VOC Emissions				CO_2 Emissions				CH_4 Emissions				H_2S Emissions			
Valves - Gas	4.36	lb/hr	19.08	TPY	0.18	lb/hr	0.80	TPY	5.17	lb/hr	22.63	TPY	<0.01	lb/hr	<0.01	TPY
Flanges - Gas	3.44	lb/hr	15.05	TPY	0.14	lb/hr	0.63	TPY	4.07	lb/hr	17.84	TPY	<0.01	lb/hr	<0.01	TPY
Relief Valves - Gas	1.17	lb/hr	5.12	TPY	0.05	lb/hr	0.22	TPY	1.39	lb/hr	6.07	TPY	<0.01	lb/hr	<0.01	TPY
Connectors - Gas	1.30	lb/hr	5.69	TPY	0.05	lb/hr	0.24	TPY	1.54	lb/hr	6.75	TPY	<0.01	lb/hr	<0.01	TPY
Compressor Seals - Gas	0.05	lb/hr	0.22	TPY	<0.01	lb/hr	0.01	TPY	0.06	lb/hr	0.26	TPY	<0.01	lb/hr	<0.01	TPY
Valves - Light Oil	2.40	lb/hr	10.50	TPY	0.03	lb/hr	0.13	TPY	0.50	lb/hr	2.19	TPY	0.00	lb/hr	0.00	TPY
Flanges - Light Oil	0.96	lb/hr	4.20	TPY	0.01	lb/hr	0.05	TPY	0.20	lb/hr	0.88	TPY	0.00	lb/hr	0.00	TPY
Pump Seals - Light Oil	0.23	lb/hr	1.03	TPY	<0.01	lb/hr	0.01	TPY	0.05	lb/hr	0.21	TPY	0.00	lb/hr	0.00	TPY
Connectors - Light Oil	2.47	lb/hr	10.83	TPY	0.03	lb/hr	0.13	TPY	0.52	lb/hr	2.26	TPY	0.00	lb/hr	0.00	TPY
Total	**16.37**	**lb/hr**	**71.71**	**TPY**	**0.51**	**lb/hr**	**2.23**	**TPY**	**13.49**	**lb/hr**	**59.09**	**TPY**	**<0.01**	**lb/hr**	**<0.01**	**TPY**

Component	n-Hexane Emissions				Benzene Emissions				Toluene Emissions				Ethylbenzene Emissions				Xylene Emissions				2,2,4-Trimethylpentane Emissions			
Valves - Gas	0.02	lb/hr	0.09	TPY	<0.01	lb/hr	0.02	TPY	<0.01	lb/hr	0.02	TPY	<0.01	lb/hr	<0.01	TPY	<0.01	lb/hr	0.01	TPY	<0.01	lb/hr	0.02	TPY
Flanges - Gas	0.02	lb/hr	0.07	TPY	<0.01	lb/hr	0.01	TPY	<0.01	lb/hr	0.01	TPY	<0.01	lb/hr	<0.01	TPY	<0.01	lb/hr	<0.01	TPY	<0.01	lb/hr	0.02	TPY
Relief Valves - Gas	0.01	lb/hr	0.02	TPY	<0.01	lb/hr	<0.01	TPY	<0.01	lb/hr	<0.01	TPY	<0.01	lb/hr	<0.01	TPY	<0.01	lb/hr	<0.01	TPY	<0.01	lb/hr	0.01	TPY
Connectors - Gas	0.01	lb/hr	0.03	TPY	<0.01	lb/hr	0.01	TPY	<0.01	lb/hr	0.01	TPY	<0.01	lb/hr	<0.01	TPY	<0.01	lb/hr	<0.01	TPY	<0.01	lb/hr	0.01	TPY
Compressor Seals - Gas	<0.01	lb/hr	<0.01	TPY	<0.01	lb/hr	<0.01	TPY	<0.01	lb/hr	<0.01	TPY	<0.01	lb/hr	<0.01	TPY	<0.01	lb/hr	<0.01	TPY	<0.01	lb/hr	<0.01	TPY
Valves - Light Oil	0.02	lb/hr	0.08	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY
Flanges - Light Oil	0.01	lb/hr	0.03	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY
Pump Seals - Light Oil	<0.01	lb/hr	0.01	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY
Connectors - Light Oil	0.02	lb/hr	0.08	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY	0.00	lb/hr	0.00	TPY
Total	**0.09**	**lb/hr**	**0.40**	**TPY**	**0.01**	**lb/hr**	**0.04**	**TPY**	**0.01**	**lb/hr**	**0.04**	**TPY**	**<0.01**	**lb/hr**	**<0.01**	**TPY**	**<0.01**	**lb/hr**	**0.01**	**TPY**	**0.01**	**lb/hr**	**0.05**	**TPY**

Notes:
1) TOC from previous table multiplied by pollutant content of streams (weight%) to obtain pollutant emissions. See attached analyses table.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Miscellaneous Venting and Blowdown Emissions Calculations

Component	Molecular Weight	Stream 1 Inlet Gas	Emissions	
		Mole %	scf/yr[1]	TPY[2]
Hydrogen Sulfide	34.081	0.002%	24	<0.01
Carbon Dioxide	44.010	0.812%	9,748	0.57
Nitrogen	28.013	2.475%	29,702	1.10
Helium	4.003	0.000%	0	0.00
Oxygen	31.999	0.000%	0	0.00
Methane	16.043	60.224%	722,682	15.28
Ethane	30.069	20.335%	244,014	9.67
Propane	44.096	10.511%	126,128	7.33
i-Butane	58.122	1.112%	13,340	1.02
n-Butane	58.122	3.251%	39,017	2.99
i-Pentane	72.149	0.416%	4,987	0.47
n-Pentane	72.149	0.564%	6,768	0.64
n-Hexane	86.175	0.045%	534	0.06
Other Hexanes	86.175	0.192%	2,307	0.26
Heptanes	100.202	0.021%	248	0.03
Benzene	78.114	0.010%	120	0.01
Toluene	92.141	0.009%	103	0.01
Ethylbenzene	106.167	0.000%	5	<0.01
Xylenes	106.167	0.002%	26	<0.01
Octanes	114.229	0.014%	173	0.03
2,2,4-Trimethylpentane	114.231	0.008%	96	0.01
Nonanes	128.255	0.000%	0	0.00
Decanes	142.282	0.000%	0	0.00
	Totals =	100.002%	**1,200,024**	**39.49**
		Total VOC =	**193,854**	**12.88**
		Total HAP =	**885**	**0.10**

Estimated Annual Volume 1,200,000 scf/yr
Molar volume conversion @60° F and 1 atm: 1 lb/mole = 379.4 scf

Notes:
1) Calculated as follows: Total Losses scf/yr * mol% of component.
2) Calculated as follows: component scf/yr / 379.4 molar volume conversion * MW component / 2000 lb/ton.

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TITLE V PERMIT TO OPERATE - RENEWAL APPLICATION

NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF AIR QUALITY
SFN 52824 (9-2021)

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

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

PART 1. GENERAL APPLICATION INFORMATION

Owner's Name: ONEOK Rockies Midstream, L.L.C.

Facility Name: Demicks Lake Gas Plant

Name of Person Completing Application: Deborah Bedingfield Phone: (918) 732-1485

Title: Environmental Professional Email: deborah.bedingfield@oneok.com

Current Operating Permit Number: AOP-28419 v1.1

Expiration Date of Current Operating Permit: 02 / 24 / 2027

PART 2. COMPLIANCE CERTIFICATION

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

Frequency of Submittal	Date Beginning (month/day/year)
Annually	02/14/2023

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

The facility identified in this application is in compliance with applicable monitoring and compliance certification requirements.

- ☑ Yes
- ☐ No - Describe below which requirements are not being met:
- ☐ CAM not applicable

C. Certification of Compliance with all Applicable Requirements

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

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

Signed DocuSigned by: Dick J. Vande Bossche 67B797C4193640F...	Date 7/29/2026
Typed Name Dick Vande Bossche, VP Rockies Midstream Operations	

PART 3. STATUS OF SOURCE

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

☑ No ☐ Yes

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

PART 4. CERTIFICATION OF TRUTH, ACCURACY AND COMPLETENESS

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

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

Name (typed) Dick Vande Bossche, VP Rockies Midstream Operations

(Signed) DocuSigned by: Dick J. Vande Bossche 67B797C4193640F... Date 7/29/2026 / _____ / _____

Telephone Number (406) 433-8710

Send original renewal application to:

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

Send copy of renewal application to:

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

NORTH Dakota | Environmental Quality
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ONEOK is requesting no changes be made to the permit with this submittal of the TV Renewal application. This document serves as the requested redline version of the existing permit, with no further notations.

AIR POLLUTION CONTROL
TITLE V PERMIT TO OPERATE

Permittee: **Name:** ONEOK Rockies Midstream, L.L.C. **Address:** 100 West Fifth Street Tulsa, OK 74103-4298	**Permit Number:** AOP-28419 v1.1 **Source Name:** Demicks Lake Gas Plant
Source Location: 11242 - 33rd Street NW Watford City, ND 58847 NE ¼, Sec. 20, T151N, R96W 47.887505 Lat., -102.989511 Long. McKenzie County	**Source Type:** Natural Gas Processing
Expiration Date: February 24, 2027	

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

Renewal: 2/24/22
Revision (Sig. Mod.): 10/9/2024

James L. Semerad
Director
Division of Air Quality

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

The emission units regulated by this permit are as follows:

Table 1.1 Emission Unit Identification

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
Two Caterpillar Model G3516C natural gas-engine driven emergency generators each rated at 2,175 bhp (manuf. 2019; NSPS JJJJ, OOOOa; NESHAP/MACT ZZZZ)	EGEN-1 [A] & EGEN-2 [A]	EGEN-1 & EGEN-2	None
Caterpillar Model G3512 natural gas-engine driven emergency generator rated at 1,468 bhp (manuf. 2/2022; NSPS JJJJ, OOOOa; NESHAP/MACT ZZZZ)	EGEN-3	EGEN-3	None
Two natural gas-fired hot oil heaters each rated at 56.3 x 10^6 Btu/hr (NSPS Dc)	H-1A & H-2A	H-1A & H-2A	Low NO_x Burners
Natural gas-fired hot oil heater rated at 61.2 x 10^6 Btu/hr (NSPS Dc)	H-3A	H-3A	Low NO_x Burners
Two natural gas-fired regeneration heaters each rated at 22.04 x 10^6 Btu/hr	H-1B & H-2B	H-1B & H-2B	Low NO_x Burners
Natural gas-fired regeneration heater rated at 36.1 x 10^6 Btu/hr	H-3B	H-3B	Low NO_x Burners
Emergency/process flare	FL-1	FL-1	None
Condensate truck loading	TL-1	COMB-1	Combustor
Combustor	COMB-1	COMB-1	None
Four 400 bbl slop water tanks	WTK-1A [B], WTK-1B [B], WTK-2A [B] & WTK-2B [B]	WTK-1A, WTK-1B, WTK-2A & WTK-2B	None
Three 300 bbl methanol tanks	MTK-1 [B], MTK-2 [B] & MTK-3	MTK-1, MTK-2 & MTK-3	None
Vents and blowdowns	BD [B]	BD	None
15 Electric motor compressors	-- [B]	--	None
Fugitive emissions (NSPS exempt)	FUG-3 [B]	FUG-3	None
Fugitive emissions (NSPS OOOOa, OOOOb)	FUG-5 [B]	FUG-5	None

[A] The potential to emit for an emergency stationary reciprocating internal combustion engine (RICE) is based on operating no more hours per year than is allowed by the subpart (40 CFR 60, Subpart JJJJ and 40 CFR 63, Subpart ZZZZ) for other than emergency situations. For engines to be considered emergency stationary RICE under the RICE rules, engine operations must comply with the operating hour limits as specified in the applicable subpart. There is no time limit on the use of emergency stationary RICE in emergency situations [40 CFR 60, Subpart JJJJ, §60.4243(d) and 40 CFR 63, Subpart ZZZZ, §63.6640(f)]

[B] Insignificant or fugitive emission sources (no specific emission limit). Fugitive emissions subject to

40 CFR 60, Subpart OOOO, Subpart OOOOa or Subpart OOOOb must conduct leak detection and repair in accordance with the applicable regulation.

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

A. **Fuel Restrictions**:

1) All fuel burning equipment is restricted to combusting only field gas or natural gas containing no more than 2 grains of sulfur per 100 standard cubic feet.

Applicable Requirements: ACP-17868 v1.0 and ACP-17989 v1.0

B. **Flaring/Combustor Restrictions**:

1) When it is necessary to operate the flare and/or combustor 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 standards.

2) The flare and combustor must each 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-17868 v1.0 and NDAC 33.1-15-14-06.5.b(1)

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

1) Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (EU H-1A, H-2A, H-3A).

2) Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (EU EGEN-1, EGEN-2, EGEN-3).

3) Subpart OOOOa - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015 (reciprocating compressors and process piping fugitive emissions, EU FUG-5).

4) Subpart OOOOb - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After December 6, 2022 (process piping fugitive emissions, EU FUG-5). The North Dakota Department of Environmental Quality has not adopted the provisions of this subpart. Please send all

documentation to EPA at the following address.

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

Applicable Requirements: NDAC 33.1-15-12-02, Subparts A, Dc, JJJJ and OOOOa and 40 CFR 60, Subpart OOOOb

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 EGEN-1, EGEN-2 & EGEN-3). As an area source of HAP emissions, compliance with 40 CFR 60, Subpart JJJJ constitutes compliance with this subpart. 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 listed above.

Applicable Requirements: 40 CFR 63, Subparts A and ZZZZ

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

1) The Department must be notified within 10 days after change-out of the engine.

2) The replacement engine shall operate in the same manner, provide no increase in throughput and have equal or less emissions than the engine it is replacing.

3) The date of manufacture of the replacement engine must be included in the notification. The facility must comply with any applicable federal standards (e.g. NSPS, NESHAP, MACT) triggered by the replacement.

4) The replacement engine is subject to the same state emission limits as the existing engine in addition to any NSPS or MACT emission limit that is applicable.

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

3. **Emission Unit Limits:**

Table 3.1 Emission Unit Limits

Emission Unit Description	EU	EP	Pollutant/ Parameter	Emission Limit [A]	NDAC Applicable Requirement
Emergency generators	EGEN-1 [B] EGEN-2 [B] EGEN-3 [B]	EGEN-1 EGEN-2 EGEN-3	Opacity Operating Hours	20% [C] Condition 1 Footnote A	ACP-17989 v1.0 & 33.1-15-03-02 33.1-15-12-02, Subpart JJJJ
Natural gas-fired hot oil heaters	H-1A H-2A H-3A	H-1A H-2A H-3A	Opacity	20% [C]	ACP-17868 v1.0 & ACP-17989 v1.0
Natural gas-fired regeneration heaters	H-1B H-2B H-3B	H-1B H-2B H-3B	Opacity	20% [C]	ACP-17868 v1.0 & ACP-17989 v1.0
Emergency/process flare	FL-1	FL-1	Opacity	20% [D]	ACP-17868 v1.0 & 33.1-15-03-03.1
Combustor	COMB-1	COMB-1	Opacity	20% [C]	ACP-17868 v1.0 & 33.1-15-03-02
Slop water tanks	WTK-1A WTK-1B WTK-2A WTK-2B	WTK-1A WTK-1B WTK-2A WTK-2B	VOC	6 tons/12-month period (rolling total) [E]	33.1-15-07 & 33.1-15-14-06.5.b(1)
Fugitives (OOOOa, OOOOb)	FUG-5	FUG-5	VOC	Conditions 2.C.3 & 2.C.4	33.1-15-12-02, Subpart OOOOa, 40 CFR 60, Subpart OOOOb

A Emission limits apply to each unit.

B Each engine must also comply with any applicable NO_x, CO and VOC emission limits established in 40 CFR 60, Subpart JJJJ and any applicable emission limits established by 40 CFR 63, Subpart ZZZZ.

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

D 60% permissible for not more than one six-minute period per hour.

E Emissions from each storage vessel shall be limited to less than 6 tons per year, per tank, on a 12-month rolling total basis, and are thus not subject sources under 40 CFR 60, Subpart OOOOa per §60.5365a(e).

4. **Monitoring Requirements and Conditions:**

A. **Requirements:**

Table 4.1 Emission Monitoring

Emission Unit Description	EP	Pollutant/ Parameter	Monitoring Requirement (Method)	Condition Number	NDAC Applicable Requirement
Emergency generators	EGEN-1 EGEN-2 EGEN-3	NO_x/CO/VOC	Emissions Test	4.B.1	33.1-15-12-02, Subpart JJJJ
		Opacity	Recordkeeping	4.B.2	33.1-15-14-06.5.a(3)(a)
		Operating Hours	Recordkeeping	4.B.3	33.1-15-12-02, Subpart JJJJ
Natural gas-fired hot oil heaters	H-1A H-2A H-3A	Opacity	Recordkeeping	4.B.2	33.1-15-14-06.5.a(3)(a)
Natural gas-fired regeneration heaters	H-1B H-2B H-3B	Opacity	Recordkeeping	4.B.2	33.1-15-14-06.5.a(3)(a)
Emergency/ process flare	FL-1	Opacity	Recordkeeping & VEO	4.B.4	33.1-15-14-06.5.a(3)(a)
Combustor	COMB-1	Opacity	Recordkeeping & VEO	4.B.4	33.1-15-14-06.5.a(3)(a)
Slop water tanks	WTK-1A WTK-1B WTK-2A WTK-2B	VOC	Recordkeeping & Calculation	4.B.5	33.1-15-14-06.5.a(3)(a)
Reciprocating Compressors	--	VOC	Recordkeeping	4.B.6	33.1-15-12-02, Subpart OOOOa
Fugitives (OOOOa, OOOOb)	FUG-5	VOC	LDAR & Monitoring Data	4.B.7	33.1-15-12-02, Subpart OOOOa, 40 CFR 60, Subpart OOOOb

B. **Monitoring Conditions:**

1) 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 with 40 CFR 60, Subpart JJJJ emission limits, emission testing for each of the engines shall be conducted in accordance with 40 CFR 60, Subpart JJJJ testing specifications.

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 fuels as outlined in Condition 2.A for evidence of compliance or noncompliance with the opacity limit in the event of enforcement action.

3) A log shall be kept of the total hours of operation on a calendar year basis for each of the engines. Records shall be maintained to differentiate between time operated for emergency purposes, for maintenance/testing purposes, and for other nonemergency purposes.

4) At least once per week in which the emergency and process flare (EU FL-8501/EP 11) and/or combustor (EU COMB-1/EP COMB-1) is operated, a trained 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 (VEO) each emission point.

   a) If no visible emissions are observed, the permittee shall record the date, time and observation results. If the observation indicates visible emissions are present:

      1] The permittee must investigate for a potential problem within eight hours. Any problems that are discovered must be corrected as soon as possible. If the correction of the emissions is expected to take longer than 24 hours, the permittee shall follow procedures as outlined in Condition 7.G. All instances of visible emissions observed, associated investigations of malfunctions, and corrective actions taken shall be recorded.

      2] Following corrective maintenance, a visible emissions observation shall be made by a trained company representative (need not be certified). If no visible emissions are observed, the date and time shall be recorded. If visible emissions are observed, a formal visible emissions evaluation shall be conducted in accordance with Condition 4.B.4)b.

   b) If visible emissions are observed for longer than 24 hours, the permittee shall conduct a formal visible emissions evaluation of the flare to determine if the emissions are in compliance with the applicable opacity standard. Opacity 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) By the 15th day of each month, the permittee shall calculate VOC emissions from the tanks using records of monthly storage vessel throughput, and any model or calculation methodology for working, breathing and flashing emissions.

a) Records must be maintained to log storage vessel throughput and engineering calculations made, including when the VRU is not operational. The throughput can be determined by estimating daily throughput based on the previous monthly production or other Department-approved method.

b) If the calculated VOC emissions exceed six tons in any 12-month period, the permittee shall notify the Department by the 25th day of the month in which the calculation was made.

6) 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.

7) For all equipment subject to the standard, the permittee shall comply with the inspection, monitoring and maintenance requirements of Subpart OOOOa, §§60.5385a, 60.5397a and §60.5400a or Subpart OOOOb §60.5397b, §60.5400b and §60.5415b, as applicable.

5. **Recordkeeping Requirements:**

A. The permittee shall maintain compliance monitoring records as outlined in the Monitoring Records table that include the following information.

1) The date, place (as defined in the permit) and time of sampling or measurement.

2) The date(s) testing was performed.

3) The company, entity, or person that performed the testing.

4) The testing techniques or methods used.

5) The results of such testing.

6) The operating conditions that existed at the time of sampling or measurement.

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

Table 5.1 Monitoring Records

Emission Unit Description	EP	Pollutant/ Parameter	Compliance Monitoring Record
Emergency generators	EGEN-1 EGEN-2 EGEN-3	NO_x/CO/ VOC	Emissions Test Data
		Opacity	Fuel Type Data
		Operating Hours	Hours of Operation Data

Emission Unit Description	EP	Pollutant/ Parameter	Compliance Monitoring Record
Natural gas-fired hot oil heaters	H-1A H-2A H-3A	Opacity	Fuel Type Data
Natural gas-fired regeneration heaters	H-1B H-2B H-3B	Opacity	Fuel Type Data
Emergency/process flare	FL-1	Opacity	Recordkeeping & VEO Data
Combustor	COMB-1	Opacity	Recordkeeping & VEO Data
Slop water tanks	WTK-1A WTK-1B WTK-2A WTK-2B	VOC	Recordkeeping & Calculation Data
Reciprocating Compressors	--	VOC	Recordkeeping Data
Fugitives (OOOOa, OOOOb)	FUG-5	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 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 Dc, §60.48c, Reporting and Recordkeeping Requirements

3) NDAC 33.1-15-12-02, Subpart JJJJ, §60.4245, Notification, Reports and Records for Owners and Operators

4) NDAC 33.1-15-12-02, Subpart OOOOa, §60.5420a and §60.5421a, Notification, Reporting, and Recordkeeping Requirements and Additional Recordkeeping Requirements

5) 40 CFR 60, Subpart OOOOb, §60.5420b and §60.5421b , Notification, Reporting and Recordkeeping Requirements and Additional Recordkeeping Requirments

6) 40 CFR 63, Subpart A, §63.10, Recordkeeping and Reporting Requirements

7) 40 CFR 63, Subpart ZZZZ, §63.6645 -§63.6660, Notification, Reports and Records

Applicable Requirements: NDAC 33.1-15-12, Subparts A, Dc, JJJJ, OOOOa, 40 CFR 60, Subpart OOOOb and 40 CFR 63, Subparts A and ZZZZ

C. The permittee shall retain records of all required monitoring data and support information for a period of at least five years from the date of the monitoring sampling, measurement, report, or application. Support information includes all calibration and maintenance records and all original

strip-chart recordings/computer printouts of continuous monitoring instrumentation, and copies of all reports required by the permit.

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

6. **Reporting**:

A. Reporting shall be in accordance with the following requirements of NDAC 33.1-15-12 and 40 CFR 63, as applicable.

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

2) NDAC 33.1-15-12-02, Subpart Dc, §60.48c, Reporting and Recordkeeping Requirements

3) NDAC 33.1-15-12-02, Subpart JJJJ, §60.4245, Notification, Reports and Records

4) NDAC 33.1-15-12-02, Subpart OOOOa, §60.5420a and §60.5422a, Notification, Reporting, and Recordkeeping Requirements and Additional Reporting Requirements

5) 40 CFR 60, Subpart OOOOb, §60.5420b and §60.5422b, Notification, Reporting, and Recordkeeping Requirements and Additional Reporting Requirements

6) 40 CFR 63, Subpart A, §63.10, Recordkeeping and Reporting Requirements

7) 40 CFR 63, Subpart ZZZZ, §63.6645 - §63.6660, Notification, Reports and Records

Applicable Requirements: NDAC 33.1-15-12, Subparts A, Dc, JJJJ, OOOOa, 40 CFR 60, Subpart OOOOb and 40 CFR 63, Subparts A and ZZZZ

B. The permittee shall submit a semi-annual monitoring report for all monitoring records required under Condition 5 in a format provided or approved by the Department. All instances of deviations from the permit must be identified in the report. A monitoring report shall be submitted within 45 days after June 30 and December 31 of each year.

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

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

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

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

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

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

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

7. **Facility Wide Operating Conditions**:

A. **Ambient Air Quality Standards**:

1) Particulate and gases. The permittee shall not emit air contaminants in such a manner or amount that would violate the standards of ambient air quality listed in Table 1 of NDAC 33.1-15-02, external to buildings, to which the general public has access.

2) Radioactive substances. The permittee shall not release into the ambient air any radioactive substances exceeding the concentrations specified in NDAC 33.1-10.

3) Other air contaminants. The permittee shall not emit any other air contaminants in concentrations that would be injurious to human health or well-being or unreasonably interfere with the enjoyment of property or that would injure plant or animal life.

4) Disclaimer. Nothing in any other part or section of this permit may in any manner be construed as authorizing or legalizing the emission of air contaminants in such manner that would violate the standards in Paragraphs 1), 2) and 3) of this condition.

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

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

Applicable Requirement: NDAC 33.1-15-17

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

Applicable Requirement: NDAC 33.1-15-04

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

Applicable Requirement: NDAC 33.1-15-13-02

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

1) Any organic compounds, gases and vapors which are generated as wastes as the result of storage, refining or processing operations and which contain hydrogen sulfide shall be incinerated, flared or treated in an equally effective manner before being released into the ambient air.

2) Each flare must be equipped and operated with an automatic ignitor or a continuous burning pilot.

Applicable Requirement: NDAC 33.1-15-07-02

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

Applicable Requirement: NDAC 33.1-15-07-01.5

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

1) Maintenance Shutdowns. In the case of shutdown of air pollution control equipment for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Department at least 24 hours prior to the planned shutdown provided that the air contaminating source will be operated while the control equipment is not in service. Such prior notice shall include the following:

a) Identification of the specific facility to be taken out of service as well as its location and permit number.

b) The expected length of time that the air pollution control equipment will be out of service.

c) The nature and estimated quantity of emissions of air pollutants likely to be emitted during the shutdown period.

d) Measures, such as the use of off-shift labor and equipment, that will be taken to minimize the length of the shutdown period.

e) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period.

f) Nothing in this subsection shall in any manner be construed as authorizing or legalizing the emission of air contaminants in excess of the rate allowed by this article or a permit issued pursuant to this article.

Applicable Requirement: NDAC 33.1-15-01-13.1

2) Malfunctions.

a) When a malfunction in any installation occurs that can be expected to last longer than 24 hours and cause the emission of air contaminants in violation of this article or other applicable rules and regulations, the person responsible for such installation shall notify the Department of such malfunction as soon as possible during normal working hours. The notification must contain a statement giving all pertinent facts, including the estimated duration of the breakdown. The Department shall be notified when the condition causing the malfunction has been corrected.

b) Immediate notification to the Department is required for any malfunction that would threaten health or welfare or pose an imminent danger. During normal working hours the Department can be contacted at 701-328-5188. After hours the Department can be contacted through the 24-hour state radio emergency number 1-800-472-2121. If calling from out of state, the 24-hour number is 701-328-9921.

c) Unavoidable Malfunction. The owner or operator of a source who believes any excess emissions resulted from an unavoidable malfunction shall submit a written report to the Department which includes evidence that:

[1] The excess emissions were caused by a sudden, unavoidable breakdown of technology that was beyond the reasonable control of the owner or operator.

[2] The excess emissions could not have been avoided by better operation and maintenance, did not stem from an activity or event that could have been foreseen and avoided, or planned for.

[3] To the extent practicable, the source maintained and operated the air pollution control equipment and process equipment in a manner consistent with good practice for minimizing emissions, including minimizing any bypass emissions.

[4] Any necessary repairs were made as quickly as practicable, using off-shift labor and overtime as needed and possible.

[5] All practicable steps were taken to minimize the potential impact of the excess emissions on ambient air quality.

[6] The excess emissions are not part of a recurring pattern that may have been caused by inadequate operation or maintenance, or inadequate design of the malfunctioning equipment.

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

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

Applicable Requirement: NDAC 33.1-15-01-13.2

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

Applicable Requirement: NDAC 33.1-15-01-13.3

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

Applicable Requirement: NDAC 33.1-15-08-01

I. **Prohibition of Air Pollution**:

1) The permittee shall not permit or cause air pollution, as defined in NDAC 33.1-15-01-04.

2) Nothing in any other part of this permit or any other regulation relating to air pollution shall in any manner be construed as authorizing or legalizing the creation or maintenance of air pollution.

Applicable Requirement: NDAC 33.1-15-01-15

J. **Performance Tests:**

1) The Department may reasonably require the permittee to make or have made tests, at a reasonable time or interval, to determine the emission of air contaminants from any source, for the purpose of determining whether the permittee is in violation of any standard or to satisfy other requirements of NDCC 23.1-06. All tests shall be made, and the results calculated in accordance with test procedures approved or specified by the Department including the North Dakota Department of Environmental Quality Emission Testing Guideline. All tests shall be conducted by reputable, qualified personnel. The Department shall be given a copy of the test results in writing and signed by the person responsible for the tests.

2) The Department may conduct tests of emissions of air contaminants from any source. Upon request of the Department, the permittee shall provide necessary and adequate access into stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices, as may be necessary for proper determination of the emission of air contaminants.

Applicable Requirement: NDAC 33.1-15-01-12

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

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

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

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

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

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

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

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

1) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to Section 82.156.

2) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to Section 82.158.

3) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to Section 82.161.

4) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to Section 82.156.

Applicable Requirement: 40 CFR 82

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

1) Three years after the date on which a regulated substance is first listed under this part; or

2) The date on which a regulated substance is first present above a threshold quantity in a process.

Applicable Requirement: 40 CFR 68

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

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

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

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

Applicable Requirement: NDAC 33.1-15-15-01.2

8. **General Conditions**:

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

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

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

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

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

agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee has been submitted to the Department.

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

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

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

E. **Submissions**:

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

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

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

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

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

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

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

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

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

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

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

1) Additional applicable requirements under the Federal Clean Air Act become applicable to the permittee with a remaining permit term of three or more years. Such a reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the expiration date of this permit.

2) The Department or the United States Environmental Protection Agency determines that this permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.

3) The Department or the United States Environmental Protection Agency determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

4) Reopenings shall not be initiated before a notice of intent to reopen is provided to the permittee by the Department at least 30 days in advance of the date that this permit is to be reopened, except that the Department may provide a shorter time period in the case of an emergency. Proceedings to reopen and issue this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable.

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

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

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

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

1) No such change may violate any term or condition of this permit.

2) Each change must comply with all applicable requirements.

3) Changes under this provision may not include changes or activities subject to any requirement under Title IV or that are modifications under any provision of Title I of the Federal Clean Air Act.

4) A Permit to Construct under NDAC 33.1-15-14-02 has been issued, if required.

5) Before the permit change is made, the permittee must provide written notice to both the Department and Air Program (8P-AR), Office of Partnerships & Regulatory Assistance, US EPA Region 8, 1595 Wynkoop Street, Denver, CO 80202-1129, except for changes that qualify as insignificant activities in Section 33.1-15-14-06. This notice shall describe each change, the date of the change, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result.

6) The permittee shall record all changes that result in emissions of any regulated air pollutant subject to any applicable requirement not otherwise regulated under this permit, and the emissions resulting from those changes. The record shall reside at the permittee's facility.

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

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

1) Corrects typographical errors.

2) Identifies a change in the name, address or phone number of any person identified in this permit or provides a similar minor administrative change at the source.

3) Requires more frequent monitoring or reporting by the permittee.

4) Allows for a change in ownership or operational control of the source where the Department determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the Department.

5) Incorporates into the Title V permit the requirements from a Permit to Construct when the review was substantially equivalent to Title V requirements for permit issuance, renewal, reopenings, revisions and permit review by the United States Environmental Protection Agency and affected state review, that would be applicable to the change if it were subject to review as a permit modification and compliance requirements substantially equivalent to Title V requirements for permit content were contained in the Permit to Construct.

6) Incorporates any other type of change which the Administrator of the United States Environmental Protection Agency has approved as being an administrative permit amendment as part of the Department's approved Title V operating permit program.

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

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

1) Does not violate any applicable requirement.

2) Does not involve significant changes to existing monitoring, reporting, or recordkeeping requirements in this permit.

3) Does not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis.

4) Does not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include a federally enforceable emissions cap assumed to avoid classification as a modification under any provision of Title I of the Federal Clean Air Act; and alternative emissions limit approved pursuant to regulations promulgated under Section 112(i)(5) of the Federal Clean Air Act.

5) Is not a modification under NDAC 33.1-15-12, 33.1-15-13, and 33.1-15-15 or any provision of Title I of the Federal Clean Air Act.

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

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

N. **Significant Modifications**:

1) Significant modification procedures shall be used for applications requesting permit modifications that do not qualify as minor permit modifications or as administrative amendments. Every significant change in existing monitoring permit terms or conditions and every relaxation of reporting or recordkeeping permit terms or conditions shall be considered significant. Nothing therein shall be construed to preclude the permittee from making changes consistent with this subsection that would render existing permit compliance terms and conditions irrelevant.

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

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

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

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

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

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

1) The provisions of Section 303 of the Federal Clean Air Act (emergency orders), including the authority of the administrator of the United States Environmental Protection Agency under that section.

2) The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance.

3) The ability of the United States Environmental Protection Agency to obtain information from a source pursuant to Section 114 of the Federal Clean Air Act.

4) Nothing in this permit shall relieve the permittee of the requirement to obtain a Permit to Construct.

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

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

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

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

Applicable Requirement: NDAC 33.1-15-01-08

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

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

Applicable Requirement: NDAC 33.1-15-16

B. **Hydrogen Sulfide Restriction**: The permittee shall not discharge into the ambient air hydrogen sulfide (H_2S) 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

ONEOK
ROCKIES MIDSTREAM

Submitted Electronically via CERIS-ND

July 29, 2026

Mr. James Semerad
North Dakota Department of Environmental Quality
Division of Air Quality
918 E. Divide Ave, 2nd Floor
Bismark, ND 58501-1947

ONEOK ROCKIES MIDSTREAM, L.L.C.
DEMICKS LAKE GAS PLANT
TITLE V PERMIT TO OPERATE RENEWAL

Dear Mr. Semerad:

ONEOK Rockies Midstream, L.L.C. (ORM) operates the Demicks Lake Gas Plant, located in McKenzie County, North Dakota. The facility currently operates under Permit No. AOP-28419 v1.1, which was issued on October 9, 2024 for a Title V Significant Modification, by the North Dakota Department of Environmental Quality (NDDEQ). The Title V Permit to Operate will expire on February 24, 2027. In accordance with North Dakota Administrative Code Chapter 33.1-15-14-06.4a(1)(c), ORM submits this permit application to renew the Title V operating permit.

Enclosed with this letter are the required application forms. ORM is not proposing any changes to equipment, emission rates, or facility throughputs as was represented in the Title V Permit to Operate. A copy of the current Title V operating permit is included with this application.

If you need additional information or have any questions, please contact me at 918-732-1485 or Deborah.Bedingfield@oneok.com.

Sincerely,

Deborah Bedingfield

Deborah Bedingfield
Environmental Professional II

Enclosures

cc: D. Vande Bossche/S. Nies/V. Danzeisen/K. Rudningen/D. Collison/M. Wyer/C. Northrop/J. Hills/
J. Chrobak (.pdf)
U.S. EPA Region 8, (AP-8R) – Submitted via Certified Mail
Tulsa Environmental Files – Demicks Lake Gas Plant – Permit Actions
ACTS Change Notification

100 West 5th Street
Tulsa, OK 74103-4298

Docusign Envelope ID: 39047CBE-CEB1-8301-83D8-9B59A42790EA

Title V Permit to Operate Renewal Application

Demicks Lake Gas Plant

ONEOK Rockies Midstream, L.L.C.

ONEOK
ROCKIES MIDSTREAM

Submitted to NDDEQ Division of Air Quality
July 2026

Docusign Envelope ID: 39047CBE-CEB1-8301-83D8-9B59A42790EA

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ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
July 2026

Introduction

ONEOK Rockies Midstream, L.L.C. (ORM) owns and operates the gas processing plant known as the Demicks Lake Gas Plant located in McKenzie County. The facility currently operates under Permit No. AOP-28419 v1.1, which was issued on October 9, 2024 for a Title V Permit to Operate Significant Modification, by the North Dakota Department of Environmental Quality (NDDEQ). The Title V Permit to Operate will expire on February 24, 2027. In accordance with North Dakota Administrative Code Chapter 33.1-15-14-06.4a(1)(c), ORM submits this permit application to renew the Title V operating permit. Please note no changes to emission rates or facility throughputs are being proposed at this time.

Facility Equipment

Demicks Lake Gas Plant consists of two (2) 2,175-hp Caterpillar G3516C emergency generators, one (1) 1,468-hp Caterpillar G3512, two (2) 56.3-MMBtu/hr hot oil heaters, one (1) 61.2-MMBtu/hr hot oil heater, three (3) regeneration heaters, one (1) plant flare, 15 electric motor compressors, four (4) 400-bbl slop water tanks, and three (3) 300-bbl methanol tanks. Associated emission sources include condensate truck loading with combustor control, fugitive emissions and miscellaneous vents and blowdowns.

Process Description

Raw field gas enters the plant via pipeline. Pipeline condensate is separated from the gas in the slug catchers and routed to the condensate stabilizers, which separate more gas from the liquids. The overhead gas from the stabilizers is compressed back into the inlet gas stream.

The inlet gas is then passed through mol sieve dehydration beds to remove the water vapor that would freeze in the cryogenic recovery process. A closed-loop propane refrigeration system, consisting primarily of several electric-driven refrigeration compressors, a heat exchanger, and an economizer, is used to chill the gas enough for the heavy hydrocarbons to be partially recovered into the NGL stream. The remaining gas then heads to the cryogenic recovery process. The core of the gas processing plant is the cryogenic process. A large tower, an expander/compressor, and several heat exchangers are used to efficiently cool the gas to under -100°F and separate the pipeline quality natural gas stream from the pipeline quality hydrocarbon liquids stream. The pipeline quality gas is then compressed up to pipeline pressure for transportation to market.

Hot oil is used as a heat transfer medium throughout the plant, with natural gas fired heaters to heat the oil. The mol sieves are regenerated using a regeneration heater that heats natural gas that flows through the mol sieves to boil off moisture. Several small electric heaters may be used to prevent freezing of tanks during cold weather. Methanol, amine, lube oil, used oil and water/lube oil mixture are stored in atmospheric storage tanks. Condensate is stored in pressurized tanks and loaded into tanker trucks. Vapors off the trucks during condensate loading are routed to the combustor for destruction. Any gas vented from the condensate tanks is routed to the flare for destruction. The flare system is also used for safety, maintenance, emergencies, upsets and process flaring as needed. NGL product is not stored onsite; it is delivered directly to a pipeline.

Emissions from fugitive components and miscellaneous vents and blowdowns also occur at the facility.

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Federal Regulatory Applicability

The facility is a natural gas processing plant that falls under the North American Industrial Classification System (NAICS) code 211130 (formerly Standard Industrial Classification (SIC) 1321).

New Source Performance Standards 40 CFR Part 60 Subpart Dc, Industrial-Commercial-Institutional Steam Generating Units. This subpart affects industrial-commercial-institutional steam generating units with a design capacity between 10 and 100 mmBtu/hr heat input and which commenced construction or modification after July 9, 1989. The hot oil heaters are considered steam generating units and are subject to the recordkeeping requirements only of this subpart.

New Source Performance Standards 40 CFR Part 60 Subpart K, Ka, Kb, and **Kc** VOL Storage Vessels. The condensate tanks are exempt from this subpart as they store liquids prior to custody transfer. The methanol storage tanks at this facility are not subject to this subpart since they contain a liquid with a true vapor pressure and storage volume below the threshold levels of Subparts Kb and Kc.

New Source Performance Standards 40 CFR Part 60 Subpart KKK, Equipment Leaks of VOC from Onshore Natural Gas Processing Plants. This subpart regulates equipment leaks of volatile organic compounds (VOC) from onshore natural gas processing plants constructed after January 20, 1984 and prior to August 23, 2011. The components at Demicks Lake Gas Plant were constructed after August 23, 2011 and are not subject to this subpart.

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 Caterpillar emergency generators were manufactured after January 1, 2009; therefore, they are subject to this subpart and will comply with the emissions limitations for emergency engines.

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;
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.

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All potentially affected equipment at the facility 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.

There are reciprocating compressors at the facility that are subject to this subpart. Any pneumatic controllers at the facility operate on instrument air; therefore, they are not subject to this subpart. The condensate tanks are pressurized with blanket gas and may have occasional venting emissions that will be routed to flare to ensure that total emissions are less than 6 tons per year; therefore, they are not subject to this subpart. The atmospheric 400-bbl slop water tanks are not subject to this subpart as they have emissions of less than 6 tons per year. ORM has established a federally enforceable emissions limitation of less than 6 tons per year for each of the condensate and slop water tanks to remain exempt from requirements of the subpart. The facility also has process piping fugitive components that are subject to leak detection and repair (LDAR) requirements.

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 production, transmission or distribution 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;
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.

The inlet gas unit at the Demicks Lake Gas Plant is applicable to the OOOOb fugitive emissions monitoring and leak detection and repair (LDAR) requirements. The flare controls the emissions at a OOOOb affected facility;

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therefore, the flare must comply with the requirements for control devices of this subpart. All other equipment at the facility was constructed prior to December 6, 2022, and 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 generator 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.

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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

Atmospheric 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). Except for 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 slop water storage tanks at the facility have insignificant emissions and therefore meet the requirements of the May 27, 2015 NDDEQ 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 Regulatory Applicability.

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.

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

The facility is not a PSD major 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 regard 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 PSD major sources and are 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.

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.

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Application Forms

Form SFN 52824 – Title V Permit to Operate – Renewal Application

Docusign Envelope ID: 39047CBE-CEB1-8301-83D8-9B59A42790EA

TITLE V PERMIT TO OPERATE - RENEWAL APPLICATION

NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF AIR QUALITY
SFN 52824 (9-2021)

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

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

PART 1. GENERAL APPLICATION INFORMATION

Owner's Name: ONEOK Rockies Midstream, L.L.C.

Facility Name: Demicks Lake Gas Plant

Name of Person Completing Application: Deborah Bedingfield Phone: (918) 732-1485

Title: Environmental Professional Email: deborah.bedingfield@oneok.com

Current Operating Permit Number: AOP-28419 v1.1

Expiration Date of Current Operating Permit: 02 / 24 / 2027

PART 2. COMPLIANCE CERTIFICATION

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

Frequency of Submittal	Date Beginning (month/day/year)
Annually	02/14/2023

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

The facility identified in this application is in compliance with applicable monitoring and compliance certification requirements.

- ☑ Yes
- ☐ No - Describe below which requirements are not being met:
- ☐ CAM not applicable

C. Certification of Compliance with all Applicable Requirements

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

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

Signed DocuSigned by: Dick J. Vande Bossche 67B797C4193640F...	Date 7/29/2026
Typed Name Dick Vande Bossche, VP Rockies Midstream Operations	

PART 3. STATUS OF SOURCE

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

☑ No ☐ Yes

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

PART 4. CERTIFICATION OF TRUTH, ACCURACY AND COMPLETENESS

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

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

Name (typed) Dick Vande Bossche, VP Rockies Midstream Operations

(Signed) DocuSigned by: Dick J. Vande Bossche 67B797C4193640F... Date 7/29/2026 / _____ / _____

Telephone Number (406) 433-8710

Send original renewal application to:

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

Send copy of renewal application to:

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

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ONEOK is requesting no changes be made to the permit with this submittal of the TV Renewal application. This document serves as the requested redline version of the existing permit, with no further notations.

AIR POLLUTION CONTROL
TITLE V PERMIT TO OPERATE

Permittee: **Name:** ONEOK Rockies Midstream, L.L.C. **Address:** 100 West Fifth Street Tulsa, OK 74103-4298	**Permit Number:** AOP-28419 v1.1 **Source Name:** Demicks Lake Gas Plant
Source Location: 11242 - 33rd Street NW Watford City, ND 58847 NE ¼, Sec. 20, T151N, R96W 47.887505 Lat., -102.989511 Long. McKenzie County	**Source Type:** Natural Gas Processing
Expiration Date: February 24, 2027	

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

Renewal: 2/24/22
Revision (Sig. Mod.): 10/9/2024

James L. Semerad
Director
Division of Air Quality

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

The emission units regulated by this permit are as follows:

Table 1.1 Emission Unit Identification

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
Two Caterpillar Model G3516C natural gas-engine driven emergency generators each rated at 2,175 bhp (manuf. 2019; NSPS JJJJ, OOOOa; NESHAP/MACT ZZZZ)	EGEN-1 [A] & EGEN-2 [A]	EGEN-1 & EGEN-2	None
Caterpillar Model G3512 natural gas-engine driven emergency generator rated at 1,468 bhp (manuf. 2/2022; NSPS JJJJ, OOOOa; NESHAP/MACT ZZZZ)	EGEN-3	EGEN-3	None
Two natural gas-fired hot oil heaters each rated at 56.3 x 10^6 Btu/hr (NSPS Dc)	H-1A & H-2A	H-1A & H-2A	Low NO_x Burners
Natural gas-fired hot oil heater rated at 61.2 x 10^6 Btu/hr (NSPS Dc)	H-3A	H-3A	Low NO_x Burners
Two natural gas-fired regeneration heaters each rated at 22.04 x 10^6 Btu/hr	H-1B & H-2B	H-1B & H-2B	Low NO_x Burners
Natural gas-fired regeneration heater rated at 36.1 x 10^6 Btu/hr	H-3B	H-3B	Low NO_x Burners
Emergency/process flare	FL-1	FL-1	None
Condensate truck loading	TL-1	COMB-1	Combustor
Combustor	COMB-1	COMB-1	None
Four 400 bbl slop water tanks	WTK-1A [B], WTK-1B [B], WTK-2A [B] & WTK-2B [B]	WTK-1A, WTK-1B, WTK-2A & WTK-2B	None
Three 300 bbl methanol tanks	MTK-1 [B], MTK-2 [B] & MTK-3	MTK-1, MTK-2 & MTK-3	None
Vents and blowdowns	BD [B]	BD	None
15 Electric motor compressors	-- [B]	--	None
Fugitive emissions (NSPS exempt)	FUG-3 [B]	FUG-3	None
Fugitive emissions (NSPS OOOOa, OOOOb)	FUG-5 [B]	FUG-5	None

[A] The potential to emit for an emergency stationary reciprocating internal combustion engine (RICE) is based on operating no more hours per year than is allowed by the subpart (40 CFR 60, Subpart JJJJ and 40 CFR 63, Subpart ZZZZ) for other than emergency situations. For engines to be considered emergency stationary RICE under the RICE rules, engine operations must comply with the operating hour limits as specified in the applicable subpart. There is no time limit on the use of emergency stationary RICE in emergency situations [40 CFR 60, Subpart JJJJ, §60.4243(d) and 40 CFR 63, Subpart ZZZZ, §63.6640(f)]

[B] Insignificant or fugitive emission sources (no specific emission limit). Fugitive emissions subject to

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40 CFR 60, Subpart OOOO, Subpart OOOOa or Subpart OOOOb must conduct leak detection and repair in accordance with the applicable regulation.

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

A. **Fuel Restrictions**:

1) All fuel burning equipment is restricted to combusting only field gas or natural gas containing no more than 2 grains of sulfur per 100 standard cubic feet.

Applicable Requirements: ACP-17868 v1.0 and ACP-17989 v1.0

B. **Flaring/Combustor Restrictions**:

1) When it is necessary to operate the flare and/or combustor 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 standards.

2) The flare and combustor must each 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-17868 v1.0 and NDAC 33.1-15-14-06.5.b(1)

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

1) Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (EU H-1A, H-2A, H-3A).

2) Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (EU EGEN-1, EGEN-2, EGEN-3).

3) Subpart OOOOa - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015 (reciprocating compressors and process piping fugitive emissions, EU FUG-5).

4) Subpart OOOOb - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After December 6, 2022 (process piping fugitive emissions, EU FUG-5). The North Dakota Department of Environmental Quality has not adopted the provisions of this subpart. Please send all

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documentation to EPA at the following address.

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

Applicable Requirements: NDAC 33.1-15-12-02, Subparts A, Dc, JJJJ and OOOOa and 40 CFR 60, Subpart OOOOb

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 EGEN-1, EGEN-2 & EGEN-3). As an area source of HAP emissions, compliance with 40 CFR 60, Subpart JJJJ constitutes compliance with this subpart. 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 listed above.

Applicable Requirements: 40 CFR 63, Subparts A and ZZZZ

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

1) The Department must be notified within 10 days after change-out of the engine.

2) The replacement engine shall operate in the same manner, provide no increase in throughput and have equal or less emissions than the engine it is replacing.

3) The date of manufacture of the replacement engine must be included in the notification. The facility must comply with any applicable federal standards (e.g. NSPS, NESHAP, MACT) triggered by the replacement.

4) The replacement engine is subject to the same state emission limits as the existing engine in addition to any NSPS or MACT emission limit that is applicable.

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

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3. **Emission Unit Limits:**

Table 3.1 Emission Unit Limits

Emission Unit Description	EU	EP	Pollutant/ Parameter	Emission Limit [A]	NDAC Applicable Requirement
Emergency generators	EGEN-1 [B] EGEN-2 [B] EGEN-3 [B]	EGEN-1 EGEN-2 EGEN-3	Opacity Operating Hours	20% [C] Condition 1 Footnote A	ACP-17989 v1.0 & 33.1-15-03-02 33.1-15-12-02, Subpart JJJJ
Natural gas-fired hot oil heaters	H-1A H-2A H-3A	H-1A H-2A H-3A	Opacity	20% [C]	ACP-17868 v1.0 & ACP-17989 v1.0
Natural gas-fired regeneration heaters	H-1B H-2B H-3B	H-1B H-2B H-3B	Opacity	20% [C]	ACP-17868 v1.0 & ACP-17989 v1.0
Emergency/process flare	FL-1	FL-1	Opacity	20% [D]	ACP-17868 v1.0 & 33.1-15-03-03.1
Combustor	COMB-1	COMB-1	Opacity	20% [C]	ACP-17868 v1.0 & 33.1-15-03-02
Slop water tanks	WTK-1A WTK-1B WTK-2A WTK-2B	WTK-1A WTK-1B WTK-2A WTK-2B	VOC	6 tons/12-month period (rolling total) [E]	33.1-15-07 & 33.1-15-14-06.5.b(1)
Fugitives (OOOOa, OOOOb)	FUG-5	FUG-5	VOC	Conditions 2.C.3 & 2.C.4	33.1-15-12-02, Subpart OOOOa, 40 CFR 60, Subpart OOOOb

A Emission limits apply to each unit.

B Each engine must also comply with any applicable NO_x, CO and VOC emission limits established in 40 CFR 60, Subpart JJJJ and any applicable emission limits established by 40 CFR 63, Subpart ZZZZ.

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

D 60% permissible for not more than one six-minute period per hour.

E Emissions from each storage vessel shall be limited to less than 6 tons per year, per tank, on a 12-month rolling total basis, and are thus not subject sources under 40 CFR 60, Subpart OOOOa per §60.5365a(e).

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4. Monitoring Requirements and Conditions:

A. Requirements:

Table 4.1 Emission Monitoring

Emission Unit Description	EP	Pollutant/ Parameter	Monitoring Requirement (Method)	Condition Number	NDAC Applicable Requirement
Emergency generators	EGEN-1 EGEN-2 EGEN-3	NO_x/CO/VOC	Emissions Test	4.B.1	33.1-15-12-02, Subpart JJJJ
		Opacity	Recordkeeping	4.B.2	33.1-15-14-06.5.a(3)(a)
		Operating Hours	Recordkeeping	4.B.3	33.1-15-12-02, Subpart JJJJ
Natural gas-fired hot oil heaters	H-1A H-2A H-3A	Opacity	Recordkeeping	4.B.2	33.1-15-14-06.5.a(3)(a)
Natural gas-fired regeneration heaters	H-1B H-2B H-3B	Opacity	Recordkeeping	4.B.2	33.1-15-14-06.5.a(3)(a)
Emergency/ process flare	FL-1	Opacity	Recordkeeping & VEO	4.B.4	33.1-15-14-06.5.a(3)(a)
Combustor	COMB-1	Opacity	Recordkeeping & VEO	4.B.4	33.1-15-14-06.5.a(3)(a)
Slop water tanks	WTK-1A WTK-1B WTK-2A WTK-2B	VOC	Recordkeeping & Calculation	4.B.5	33.1-15-14-06.5.a(3)(a)
Reciprocating Compressors	--	VOC	Recordkeeping	4.B.6	33.1-15-12-02, Subpart OOOOa
Fugitives (OOOOa, OOOOb)	FUG-5	VOC	LDAR & Monitoring Data	4.B.7	33.1-15-12-02, Subpart OOOOa, 40 CFR 60, Subpart OOOOb

B. Monitoring Conditions:

1) 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 with 40 CFR 60, Subpart JJJJ emission limits, emission testing for each of the engines shall be conducted in accordance with 40 CFR 60, Subpart JJJJ testing specifications.

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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 fuels as outlined in Condition 2.A for evidence of compliance or noncompliance with the opacity limit in the event of enforcement action.

3) A log shall be kept of the total hours of operation on a calendar year basis for each of the engines. Records shall be maintained to differentiate between time operated for emergency purposes, for maintenance/testing purposes, and for other nonemergency purposes.

4) At least once per week in which the emergency and process flare (EU FL-8501/EP 11) and/or combustor (EU COMB-1/EP COMB-1) is operated, a trained 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 (VEO) each emission point.

   a) If no visible emissions are observed, the permittee shall record the date, time and observation results. If the observation indicates visible emissions are present:

      1] The permittee must investigate for a potential problem within eight hours. Any problems that are discovered must be corrected as soon as possible. If the correction of the emissions is expected to take longer than 24 hours, the permittee shall follow procedures as outlined in Condition 7.G. All instances of visible emissions observed, associated investigations of malfunctions, and corrective actions taken shall be recorded.

      2] Following corrective maintenance, a visible emissions observation shall be made by a trained company representative (need not be certified). If no visible emissions are observed, the date and time shall be recorded. If visible emissions are observed, a formal visible emissions evaluation shall be conducted in accordance with Condition 4.B.4)b.

   b) If visible emissions are observed for longer than 24 hours, the permittee shall conduct a formal visible emissions evaluation of the flare to determine if the emissions are in compliance with the applicable opacity standard. Opacity 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) By the 15th day of each month, the permittee shall calculate VOC emissions from the tanks using records of monthly storage vessel throughput, and any model or calculation methodology for working, breathing and flashing emissions.

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a) Records must be maintained to log storage vessel throughput and engineering calculations made, including when the VRU is not operational. The throughput can be determined by estimating daily throughput based on the previous monthly production or other Department-approved method.

b) If the calculated VOC emissions exceed six tons in any 12-month period, the permittee shall notify the Department by the 25th day of the month in which the calculation was made.

6) 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.

7) For all equipment subject to the standard, the permittee shall comply with the inspection, monitoring and maintenance requirements of Subpart OOOOa, §§60.5385a, 60.5397a and §60.5400a or Subpart OOOOb §60.5397b, §60.5400b and §60.5415b, as applicable.

5. **Recordkeeping Requirements:**

A. The permittee shall maintain compliance monitoring records as outlined in the Monitoring Records table that include the following information.

1) The date, place (as defined in the permit) and time of sampling or measurement.

2) The date(s) testing was performed.

3) The company, entity, or person that performed the testing.

4) The testing techniques or methods used.

5) The results of such testing.

6) The operating conditions that existed at the time of sampling or measurement.

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

Table 5.1 Monitoring Records

Emission Unit Description	EP	Pollutant/ Parameter	Compliance Monitoring Record
Emergency generators	EGEN-1 EGEN-2 EGEN-3	NO_x/CO/ VOC	Emissions Test Data
		Opacity	Fuel Type Data
		Operating Hours	Hours of Operation Data

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Emission Unit Description	EP	Pollutant/ Parameter	Compliance Monitoring Record
Natural gas-fired hot oil heaters	H-1A H-2A H-3A	Opacity	Fuel Type Data
Natural gas-fired regeneration heaters	H-1B H-2B H-3B	Opacity	Fuel Type Data
Emergency/process flare	FL-1	Opacity	Recordkeeping & VEO Data
Combustor	COMB-1	Opacity	Recordkeeping & VEO Data
Slop water tanks	WTK-1A WTK-1B WTK-2A WTK-2B	VOC	Recordkeeping & Calculation Data
Reciprocating Compressors	--	VOC	Recordkeeping Data
Fugitives (OOOOa, OOOOb)	FUG-5	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 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 Dc, §60.48c, Reporting and Recordkeeping Requirements

3) NDAC 33.1-15-12-02, Subpart JJJJ, §60.4245, Notification, Reports and Records for Owners and Operators

4) NDAC 33.1-15-12-02, Subpart OOOOa, §60.5420a and §60.5421a, Notification, Reporting, and Recordkeeping Requirements and Additional Recordkeeping Requirements

5) 40 CFR 60, Subpart OOOOb, §60.5420b and §60.5421b , Notification, Reporting and Recordkeeping Requirements and Additional Recordkeeping Requirments

6) 40 CFR 63, Subpart A, §63.10, Recordkeeping and Reporting Requirements

7) 40 CFR 63, Subpart ZZZZ, §63.6645 -§63.6660, Notification, Reports and Records

Applicable Requirements: NDAC 33.1-15-12, Subparts A, Dc, JJJJ, OOOOa, 40 CFR 60, Subpart OOOOb and 40 CFR 63, Subparts A and ZZZZ

C. The permittee shall retain records of all required monitoring data and support information for a period of at least five years from the date of the monitoring sampling, measurement, report, or application. Support information includes all calibration and maintenance records and all original

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strip-chart recordings/computer printouts of continuous monitoring instrumentation, and copies of all reports required by the permit.

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

6. **Reporting**:

A. Reporting shall be in accordance with the following requirements of NDAC 33.1-15-12 and 40 CFR 63, as applicable.

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

2) NDAC 33.1-15-12-02, Subpart Dc, §60.48c, Reporting and Recordkeeping Requirements

3) NDAC 33.1-15-12-02, Subpart JJJJ, §60.4245, Notification, Reports and Records

4) NDAC 33.1-15-12-02, Subpart OOOOa, §60.5420a and §60.5422a, Notification, Reporting, and Recordkeeping Requirements and Additional Reporting Requirements

5) 40 CFR 60, Subpart OOOOb, §60.5420b and §60.5422b, Notification, Reporting, and Recordkeeping Requirements and Additional Reporting Requirements

6) 40 CFR 63, Subpart A, §63.10, Recordkeeping and Reporting Requirements

7) 40 CFR 63, Subpart ZZZZ, §63.6645 - §63.6660, Notification, Reports and Records

Applicable Requirements: NDAC 33.1-15-12, Subparts A, Dc, JJJJ, OOOOa, 40 CFR 60, Subpart OOOOb and 40 CFR 63, Subparts A and ZZZZ

B. The permittee shall submit a semi-annual monitoring report for all monitoring records required under Condition 5 in a format provided or approved by the Department. All instances of deviations from the permit must be identified in the report. A monitoring report shall be submitted within 45 days after June 30 and December 31 of each year.

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

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

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

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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

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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.

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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.

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[6] The excess emissions are not part of a recurring pattern that may have been caused by inadequate operation or maintenance, or inadequate design of the malfunctioning equipment.

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

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

Applicable Requirement: NDAC 33.1-15-01-13.2

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

Applicable Requirement: NDAC 33.1-15-01-13.3

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

Applicable Requirement: NDAC 33.1-15-08-01

I. **Prohibition of Air Pollution**:

1) The permittee shall not permit or cause air pollution, as defined in NDAC 33.1-15-01-04.

2) Nothing in any other part of this permit or any other regulation relating to air pollution shall in any manner be construed as authorizing or legalizing the creation or maintenance of air pollution.

Applicable Requirement: NDAC 33.1-15-01-15

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J. **Performance Tests:**

1) The Department may reasonably require the permittee to make or have made tests, at a reasonable time or interval, to determine the emission of air contaminants from any source, for the purpose of determining whether the permittee is in violation of any standard or to satisfy other requirements of NDCC 23.1-06. All tests shall be made, and the results calculated in accordance with test procedures approved or specified by the Department including the North Dakota Department of Environmental Quality Emission Testing Guideline. All tests shall be conducted by reputable, qualified personnel. The Department shall be given a copy of the test results in writing and signed by the person responsible for the tests.

2) The Department may conduct tests of emissions of air contaminants from any source. Upon request of the Department, the permittee shall provide necessary and adequate access into stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices, as may be necessary for proper determination of the emission of air contaminants.

Applicable Requirement: NDAC 33.1-15-01-12

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

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

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

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

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

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

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

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

1) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to Section 82.156.

2) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to Section 82.158.

3) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to Section 82.161.

4) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to Section 82.156.

Applicable Requirement: 40 CFR 82

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

1) Three years after the date on which a regulated substance is first listed under this part; or

2) The date on which a regulated substance is first present above a threshold quantity in a process.

Applicable Requirement: 40 CFR 68

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

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

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

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

Applicable Requirement: NDAC 33.1-15-15-01.2

8. **General Conditions**:

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

Applicable Requirements: NDAC 33.1-15-14-06.5.a(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

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agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee has been submitted to the Department.

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

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

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

E. **Submissions**:

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

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

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

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

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

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

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

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

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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

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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.

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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.

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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)

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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_2S) 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

Schneider, Kyla K.

From: Bedingfield, Deborah A. <Deborah.Bedingfield@oneok.com>
Sent: Tuesday, September 29, 2026 9:42 AM
To: Schneider, Kyla K.
Cc: Hills, Joshua
Subject: RE: (External) AQ Draft Title V for ONEOK Demicks Lake Gas Plant - ONEOK Rockies Midstream, L.L.C. (ORM)
Attachments: Demicks GP_AppB_EmEst_Updated_9-28-2026.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

***** **CAUTION:** This email originated from an outside source. Do not click links or open attachments unless you know they are safe. *****

Hello Kyla. Thank you very much for your inquiry. Below are my responses:

1) The condensate tanks are the bullet tanks on site, and they do have flare control to control venting when pressure exceedance causes an upset event.
2) Agree the eight (8) bullet tanks should be added to the Title V permit as insignificant units due to each are pressurized with blanket gas and the occasional venting is routed to a flare with emissions less than 6 TPY per tank; the preferred nomenclature for the pressurized tanks should be TK-1 through TK-8.
3) The pressurized bullet tanks individually are less than six (6) tons per year; therefore, not subject to OOOOa. The condensate tanks contain stabilized condensate held at 25 psig by tank blanket gas. Each tank has a relief valve that vents during various upset conditions. The gas vented would be a mixture of tank vapors and blanket (residue) gas. The flash gas composition is used for emissions calculations for a conservative estimate, and the annual vented volume is an overestimation of emissions, which is represented at the flare (98% destruction efficiency; an additional 10% increase in residue gas has been added to the flare emissions to be conservative). Please see attached emission calculations methodology and a summary of facility-wide emissions.
4) ORM respectfully requests an update to the Demicks Lake Title V Renewal permit to add the pressurized bullet tanks (TK-1 through TK-8) and the specific monitoring permit condition, to reflect tracking monthly flow meter venting volumes instead of the standard rolling 12-month period verbiage for throughput, as the flow meter volume tracking is more representative of emission impacts from the bullet tank emissions during an upset event.

Please advise if you need any additional information or have questions.

Thank you.

Respectfully,

Debbie



Debbie Bedingfield
Environmental Professional II
100 W. Fifth Street
Tulsa, Okla. 74103
www.oneok.com

Phone: 918-732-1485
Email: Deborah.Bedingfield@oneok.com
Join Our Team

From: Schneider, Kyla K. <kkschneider@nd.gov>
Sent: Monday, September 14, 2026 2:08 PM
To: Bedingfield, Deborah A. <Deborah.Bedingfield@oneok.com>
Cc: Hills, Joshua <Joshua.Hills@oneok.com>
Subject: (External) AQ Draft Title V for ONEOK Demicks Lake Gas Plant

Good afternoon,

I'm currently drafting the renewal Title V PTO for the Demicks Lake Gas Plant and had a couple questions regarding the renewal application.

On page 1 of the "2026-0729_Demicks_Lake_GP_AOP28419v1_1_Renewal_Report_Submitted.pdf" portion of the application, it states, "Any gas vented from the condensate tanks is routed to the flare for destruction." Also, on page 3 of the same document, it states, "The condensate tanks are pressurized with blanket gas and may have occasional venting emissions that will be routed to flare to ensure that total emissions are less than 6 tons per year; therefore, they are not subject to this subpart [NSPS Subpart OOOOa].

So, in an effort to verify and confirm the information for the draft permit, are the condensate tanks the bullet tanks on site and do they have flare control? If so, although they are not currently in the Title V permit, we are thinking it would be good to add them to the permit as insignificant units. Reasoning behind this is the flare control and to reduce the likelihood of inspection and/or permitting questions later.

Also, would they be subject to OOOOa without flare control as that portion of the application suggests? If so, then the ND standard conditions regarding control on emission units to keep them out of subpart applicability would appear to apply to the condensate tanks.

Please review the information and questions and let me know your thoughts. Feel free to call me with questions or to discuss anything in detail.

Much appreciated,

Kyla K. Schneider
Environmental Scientist
Division of Air Quality

701.328.5218 • kkschneider@nd.gov • https://deq.nd.gov/AQ/

NORTH Dakota Be Legendary. | Environmental Quality

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Facility Emissions Summary - Annual

Unit ID	Description	NOx	CO	VOC	SO_2	PM	HCHO	HAP	CO_2e
		TPY	TPY	TPY	TPY	TPY	TPY	TPY	TPY
EGEN-1	2,175-hp Caterpillar G3516C Emergency Generator	2.40	4.80	1.20	<0.01	0.04	0.67	0.75	538.68
EGEN-2	2,175-hp Caterpillar G3516C Emergency Generator	2.40	4.80	1.20	<0.01	0.04	0.67	0.75	538.68
EGEN-3	*2,175-hp Caterpillar G3512 Emergency Generator*	*1.62*	*3.24*	*0.81*	*<0.01*	*0.03*	*0.45*	*0.51*	*363.61*
H-1A	56.3-mmBtu/hr Hot Oil Heater	12.02	20.19	1.32	0.14	1.83	0.02	0.45	28,875.65
H-1B	22.04-mmBtu/hr Regen Heater	4.70	7.90	0.52	0.06	0.72	0.01	0.18	11,304.07
H-2A	56.3-mmBtu/hr Hot Oil Heater	12.02	20.19	1.32	0.14	1.83	0.02	0.45	28,875.65
H-2B	22.04-mmBtu/hr Regen Heater	4.70	7.90	0.52	0.06	0.72	0.01	0.18	11,304.07
H-3A	*61.2-mmBtu/hr Hot Oil Heater*	*13.06*	*21.95*	*1.44*	*0.16*	*1.99*	*0.02*	*0.49*	*31,388.81*
H-3B	*36.1-mmBtu/hr Regen Heater*	*7.71*	*12.95*	*0.85*	*0.09*	*1.17*	*0.01*	*0.29*	*18,515.29*
FL-1	*Plant Flare*	*17.59*	*79.57*	*51.39*	*0.25*	*0.01*	*<0.01*	*0.26*	*34,877.62*
WTK-1A	400-bbl Slop Water Tank	--	--	0.12	--	--	--	0.01	0.00
WTK-1B	400-bbl Slop Water Tank	--	--	0.12	--	--	--	0.01	0.00
WTK-2A	400-bbl Slop Water Tank	--	--	0.12	--	--	--	0.01	0.00
WTK-2B	400-bbl Slop Water Tank	--	--	0.12	--	--	--	0.01	0.00
TL-1	*Condensate Truck Loading*	--	--	*11.98*	--	--	--	*0.64*	*11.23*
COMB-1	*Combustor for Condensate Loading*	*0.63*	*0.81*	*0.03*	*<0.01*	*0.04*	*<0.01*	*<0.01*	*878.72*
MTK-1	300-bbl Methanol Tank	--	--	0.21	--	--	--	0.21	--
MTK-2	300-bbl Methanol Tank	--	--	0.21	--	--	--	0.21	--
MTK-3	*300-bbl Methanol Tank*	--	--	*0.21*	--	--	--	*0.21*	--
FUG-3	*Fugitive Emissions not Subject to NSPS KKK or OOOOa*	--	--	*10.83*	--	--	--	*0.00*	*1,836.64*
FUG-5	*Fugitive Emissions Subject to NSPS OOOOa, OOOOb*	--	--	*71.71*	--	--	--	*0.56*	*1,479.58*
BD	Miscellaneous Venting and Blowdowns to Atmosphere	--	--	12.88	--	--	--	0.10	382.54
	Total =	**78.84**	**184.28**	**169.14**	**0.91**	**8.39**	**1.88**	**6.26**	**171,170.85**

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.
Demicks Lake Gas Plant
Facility Emissions Summary - Hourly

Unit ID	Description	NOx	CO	VOC	SO_2	PM	HCHO	HAP	CO_2e
		lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
EGEN-1	*2,175-hp Caterpillar G3516C Emergency Generator*	*9.59*	*19.18*	*4.80*	*0.01*	*0.15*	*2.69*	*2.98*	*2,154.74*
EGEN-2	*2,175-hp Caterpillar G3516C Emergency Generator*	*9.59*	*19.18*	*4.80*	*0.01*	*0.15*	*2.69*	*2.98*	*2,154.74*
EGEN-3	*2,175-hp Caterpillar G3512 Emergency Generator*	*6.47*	*12.95*	*3.24*	*0.01*	*0.11*	*1.81*	*2.03*	*1,454.43*
H-1A	56.3-mmBtu/hr Hot Oil Heater	2.74	4.61	0.30	0.03	0.42	<0.01	0.10	6,592.61
H-1B	22.04-mmBtu/hr Regen Heater	1.07	1.80	0.12	0.01	0.16	<0.01	0.04	2,580.84
H-2A	56.3-mmBtu/hr Hot Oil Heater	2.74	4.61	0.30	0.03	0.42	<0.01	0.10	6,592.61
H-2B	22.04-mmBtu/hr Regen Heater	1.07	1.80	0.12	0.01	0.16	<0.01	0.04	2,580.84
H-3A	*61.2-mmBtu/hr Hot Oil Heater*	*2.98*	*5.01*	*0.33*	*0.04*	*0.45*	*<0.01*	*0.11*	*7,166.39*
H-3B	*36.1-mmBtu/hr Regen Heater*	*1.76*	*2.96*	*0.19*	*0.02*	*0.27*	*<0.01*	*0.07*	*4,227.24*
FL-1	Plant Flare	58.12	264.82	171.28	0.83	<0.01	<0.01	0.87	282,928.83
WTK-1A	400-bbl Slop Water Tank	--	--	0.03	--	--	--	<0.01	0.00
WTK-1B	400-bbl Slop Water Tank	--	--	0.03	--	--	--	<0.01	0.00
WTK-2A	400-bbl Slop Water Tank	--	--	0.03	--	--	--	<0.01	0.00
WTK-2B	400-bbl Slop Water Tank	--	--	0.03	--	--	--	<0.01	0.00
TL-1	*Condensate Truck Loading*	--	--	*2.74*	--	--	--	*0.14*	*2.56*
COMB-1	*Combustor for Condensate Loading*	*0.14*	*0.18*	*0.01*	*<0.01*	*0.01*	*<0.01*	*<0.01*	*200.62*
MTK-1	300-bbl Methanol Tank	--	--	0.05	--	--	--	0.05	--
MTK-2	300-bbl Methanol Tank	--	--	0.05	--	--	--	0.05	--
MTK-3	*300-bbl Methanol Tank*	--	--	*0.05*	--	--	--	*0.05*	--
FUG-3	*Fugitive Emissions not Subject to NSPS KKK or OOOOa*	--	--	*2.47*	--	--	--	*0.00*	*419.32*
FUG-5	*Fugitive Emissions Subject to NSPS OOOOa, OOOOb*	--	--	*16.37*	--	--	--	*0.13*	*337.80*
BD	Miscellaneous Venting and Blowdowns to Atmosphere	--	--	--	--	--	--	--	--
	Total =	**96.29**	**337.10**	**207.32**	**1.00**	**2.29**	**7.20**	**9.76**	**319,393.58**

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Flare Information and Emission Factors

Equipment Information	
	FL-1
Description	Plant Flare
VOC to Flare (lb/hr)	8564.10
Stream Heat Content (Btu/scf)	1,068
Stream Net Btu Value (Btu/hr)	854,145,187
Operating Hours[1]	600
Control Efficiency	98%
Pilot Stream Heat Content (Btu/scf)	1,150
Pilot Gas Flow Rate (scfh)	372.00
Pilot Gas Capacity (mmBtu/hr)	0.428
Pilot Operating Hours	8,760

AP-42/EPA Emission Factors[2]			
	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_2	Stoichiometric	**SO_2 (lb/mmscf)**	0.6
$PM_{10/2.5}$	--	**$PM_{10/2.5}$ (lb/mmscf)**	1.9
PM_{COND}	--	**PM_{COND} (lb/mmscf)**	5.7
PM_{TOT}	--	**PM_{TOT} (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_2) (kg/mmBtu)	53.06/Mass Balance	**Carbon Dioxide (CO_2) (kg/mmBtu)**	53.06
Methane (CH_4) (kg/mmBtu)	0.001/Mass Balance	**Methane (CH_4) (kg/mmBtu)**	1.00E-03
Nitrous Oxide (N_2O) (kg/mmBtu)	1.00E-04	**Nitrous Oxide (N_2O) (kg/mmBtu)**	1.00E-04

Notes:
1) Flare operating hours are for estimation purposes only and are not intended as a limit.
2) NOx and CO emission factors (lb/mmBtu), flare stream: AP-42, Table 13.5-1 (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.
Demicks Lake Gas Plant
Flare Emissions Calculations

Unit ID: FL-1

Total: Stream + Pilot

Pollutant	Hourly Emissions		Annual Emissions	
NOx	58.12	lb/hr	17.59	TPY
CO	264.82	lb/hr	79.57	TPY
VOC	171.28	lb/hr	51.39	TPY
SO_2	0.83	lb/hr	0.25	TPY
$PM_{10/2.5}$	<0.01	lb/hr	<0.01	TPY
PM_{COND}	<0.01	lb/hr	0.01	TPY
PM_{TOT}	<0.01	lb/hr	0.01	TPY
Formaldehyde	<0.01	lb/hr	<0.01	TPY
n-Hexane	0.51	lb/hr	0.15	TPY
Benzene	0.10	lb/hr	0.03	TPY
Toluene	0.10	lb/hr	0.03	TPY
Ethylbenzene	0.01	lb/hr	<0.01	TPY
Xylenes	0.03	lb/hr	0.01	TPY
Other HAP	0.12	lb/hr	0.04	TPY
CO_2	101,477.04	lb/hr	30,647.29	TPY
CH_4	561.77	lb/hr	168.53	TPY
N_2O	0.19	lb/hr	0.06	TPY

Stream Emissions

Pollutant	Emission Factor			Capacity			Conversion			Hourly Emissions		Operating Hours[1]		Conversion			Annual Emissions	
NOx	6.80E-02	lb/mmBtu	X	8.54E+02	mmBtu/hr	X	-	-	=	58.08	lb/hr	X 600	X	0.0005	ton/lb	=	17.42	TPY
CO	3.10E-01	lb/mmBtu	X	8.54E+02	mmBtu/hr	X	-	-	=	264.79	lb/hr	X 600	X	0.0005	ton/lb	=	79.44	TPY
VOC	-	-	-	-	-	-	-	-	=	171.28	lb/hr	X 600	X	0.0005	ton/lb	=	51.38	TPY
SO_2	-	-	-	-	-	-	-	-	=	0.83	lb/hr	X 600	X	0.0005	ton/lb	=	0.25	TPY
n-Hexane	-	-	-	-	-	-	-	-	=	0.51	lb/hr	X 600	X	0.0005	ton/lb	=	0.15	TPY
Benzene	-	-	-	-	-	-	-	-	=	0.10	lb/hr	X 600	X	0.0005	ton/lb	=	0.03	TPY
Toluene	-	-	-	-	-	-	-	-	=	0.10	lb/hr	X 600	X	0.0005	ton/lb	=	0.03	TPY
Ethylbenzene	-	-	-	-	-	-	-	-	=	0.01	lb/hr	X 600	X	0.0005	ton/lb	=	<0.01	TPY
Xylenes	-	-	-	-	-	-	-	-	=	0.03	lb/hr	X 600	X	0.0005	ton/lb	=	0.01	TPY
Other HAP	-	-	-	-	-	-	-	-	=	0.12	lb/hr	X 600	X	0.0005	ton/lb	=	0.04	TPY
CO_2	5.31E+01	kg/mmBtu	X	8.54E+02	mmBtu/hr	X	2.20462	lb/kg	=	99,915.46	lb/hr	X 600	X	0.0005	ton/lb	=	29,974.64	TPY
CO_2	-	-	-	-	-	-	-	-	=	1,511.54	lb/hr	X 600	X	0.0005	ton/lb	=	453.46	TPY
CH_4	1.00E-03	kg/mmBtu	X	8.54E+02	mmBtu/hr	X	2.20462	lb/kg	=	1.88	lb/hr	X 600	X	0.0005	ton/lb	=	0.56	TPY
CH_4	-	-	-	-	-	-	-	-	=	559.89	lb/hr	X 600	X	0.0005	ton/lb	=	167.97	TPY
N_2O	1.00E-04	kg/mmBtu	X	8.54E+02	mmBtu/hr	X	2.20462	lb/kg	=	0.19	lb/hr	X 600	X	0.0005	ton/lb	=	0.06	TPY

Note:

1) Flare operating hours are for estimation purposes only and are not intended as a limit.

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Flare Emissions Calculations (Continued)

Pilot Emissions

Pollutant	Emission Factor			Capacity			Conversion			Hourly Emissions			Operating Hours			Conversion			Annual Emissions	
NOx	1.00E+02	lb/mmscf	X	3.72E-04	mmscf/hr	X	-	-	=	**0.04**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.16**	**TPY**
CO	8.40E+01	lb/mmscf	X	3.72E-04	mmscf/hr	X	-	-	=	**0.03**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.14**	**TPY**
VOC	5.50E+00	lb/mmscf	X	3.72E-04	mmscf/hr	X	-	-	=	**<0.01**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.01**	**TPY**
SO_2	6.00E-01	lb/mmscf	X	3.72E-04	mmscf/hr	X	-	-	=	**<0.01**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**<0.01**	**TPY**
$PM_{10/2.5}$	1.90E+00	lb/mmscf	X	3.72E-04	mmscf/hr	X	-	-	=	**<0.01**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**<0.01**	**TPY**
PM_{COND}	5.70E+00	lb/mmscf	X	3.72E-04	mmscf/hr	X	-	-	=	**<0.01**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**0.01**	**TPY**
PM_{TOT}	7.60E+00	lb/mmscf	X	3.72E-04	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	3.72E-04	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	3.72E-04	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	3.72E-04	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	3.72E-04	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	3.72E-04	mmscf/hr	X	-	-	=	**<0.01**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**<0.01**	**TPY**
CO_2	5.31E+01	kg/mmBtu	X	4.28E-01	mmBtu/hr	X	2.20462	lb/kg	=	**50.04**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**219.19**	**TPY**
CH_4	1.00E-03	kg/mmBtu	X	4.28E-01	mmBtu/hr	X	2.20462	lb/kg	=	**<0.01**	**lb/hr**	X	8,760	X	0.0005	ton/lb	=	**<0.01**	**TPY**
N_2O	1.00E-04	kg/mmBtu	X	4.28E-01	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.
Demicks Lake Gas Plant
Flare Emissions Calculations - Flare Stream Analysis

Unit ID: **FL-1**

Component	Molecular Weight	Stream 1 Inlet Gas		Stream 4 Residue Gas		Total Streams Burned in Flare					Net Heating Value	Net Btu Rate
		150,000,000	scf/yr	330,000,000	scf/yr							
		250000.00	scfh	550000.00	scfh	Uncontrolled		scfd	Controlled			
		Mole %	lb/hr	Mole %	lb/hr	lb/hr	TPY		lb/hr	TPY	Btu/scf	Btu/hr
Water	18.0153	0.000%	0.00	0.000%	0.00	0.00	0.00	0	0.00	0.00	0.00	0
Hydrogen Sulfide	34.081	0.002%	0.45	0.000%	0.00	0.45	0.13	120	0.01	0.00	586.80	2,934
Carbon Dioxide	44.010	0.812%	235.56	2.000%	1275.97	1511.54	453.46	312,738	1511.54	453.46	0.00	0
Nitrogen	28.013	2.475%	456.90	0.000%	0.00	456.90	137.07	148,512	456.90	137.07	0.00	0
Helium	4.003	0.000%	0.00	0.000%	0.00	0.00	0.00	0	0.00	0.00	0.00	0
Oxygen	31.999	0.000%	0.00	0.000%	0.00	0.00	0.00	0	0.00	0.00	0.00	0
Methane	16.043	60.224%	6366.21	93.000%	21628.11	27994.31	8398.29	15,889,357	559.89	167.97	909.40	602,074,227
Ethane	30.069	20.335%	4028.98	0.000%	0.00	4028.98	1208.69	1,220,070	80.58	24.17	1,618.70	82,288,638
Propane	44.096	10.511%	3054.00	5.000%	3196.18	6250.18	1875.05	1,290,642	125.00	37.50	2,314.90	124,487,799
i-Butane	58.122	1.112%	425.77	0.000%	0.00	425.77	127.73	66,702	8.52	2.55	3,000.40	8,338,862
n-Butane	58.122	3.251%	1245.25	0.000%	0.00	1245.25	373.57	195,084	24.90	7.47	3,010.80	24,473,288
i-Pentane	72.149	0.416%	197.58	0.000%	0.00	197.58	59.27	24,936	3.95	1.19	3,699.00	3,843,261
n-Pentane	72.149	0.564%	268.13	0.000%	0.00	268.13	80.44	33,840	5.36	1.61	3,706.90	5,226,729
n-Hexane	86.175	0.045%	25.29	0.000%	0.00	25.29	7.59	2,672	0.51	0.15	4,403.80	490,283
Other Hexanes	86.175	0.192%	109.17	0.000%	0.00	109.17	32.75	11,535	2.18	0.66	4,403.80	2,116,602
Heptanes	100.202	0.021%	13.66	0.000%	0.00	13.66	4.10	1,241	0.27	0.08	5,100.00	263,741
Benzene	78.114	0.010%	5.13	0.000%	0.00	5.13	1.54	598	0.10	0.03	3,590.90	89,471
Toluene	92.141	0.009%	5.21	0.000%	0.00	5.21	1.56	515	0.10	0.03	4,273.60	91,683
Ethylbenzene	106.167	0.000%	0.29	0.000%	0.00	0.29	0.09	25	0.01	0.00	4,970.50	5,238
Xylenes	106.167	0.002%	1.52	0.000%	0.00	1.52	0.45	130	0.03	0.01	4,957.10	26,866
Octanes	114.229	0.014%	10.88	0.000%	0.00	10.88	3.26	867	0.22	0.07	5,796.00	209,421
2,2,4-Trimethylpentane	114.231	0.008%	6.05	0.000%	0.00	6.05	1.82	482	0.12	0.04	5,778.80	116,145
Nonanes	128.255	0.000%	0.00	0.000%	0.00	0.00	0.00	0	0.00	0.00	6,493.20	0
Decanes	142.282	0.000%	0.00	0.000%	0.00	0.00	0.00	0	0.00	0.00	7,189.60	0
Totals =		**100.0%**	**16456.02**	**100.0%**	**26100.26**	**42556.28**	**12766.88**	**19,200,067**	**--**	**--**	**--**	**854,145,187**
Total VOC =		**16.155%**	**5367.93**	**5.000%**	**3196.18**	**8564.10**	**2569.23**	**--**	**171.28**	**51.38**	**Heat Value (Btu/scf)**	**1,068**
					Total HAP =	**43.49**	**13.05**	**--**	**0.87**	**0.26**		
					Total H_2S=	**0.45**	**0.13**	**--**	**0.01**	**0.00**		
							MW of Stream =	**20.18**				

ONEOK Rockies Midstream, L.L.C.
Demicks Lake Gas Plant
Tank Blanket Gas Emissions Calculations[1]

Component	Molecular Weight	Stream 3 Flash Gas	Uncontrolled Emissions		Controlled Emissions
		Mole %	scf/yr[2]	TPY[3]	TPY[4]
Hydrogen Sulfide	34.081	0.000%	0	0.00	0.00
Carbon Dioxide	44.010	0.554%	47,090	2.73	0.05
Nitrogen	28.013	0.000%	0	0.00	0.00
Helium	4.003	0.000%	0	0.00	0.00
Oxygen	31.999	0.000%	0	0.00	0.00
Methane	16.043	16.800%	1,428,000	30.19	0.60
Ethane	30.069	32.100%	2,728,500	108.12	2.16
Propane	44.096	29.600%	2,516,000	146.21	2.92
i-Butane	58.122	3.250%	276,250	21.16	0.42
n-Butane	58.122	11.000%	935,000	71.62	1.43
i-Pentane	72.149	1.970%	167,450	15.92	0.32
n-Pentane	72.149	3.000%	255,000	24.25	0.48
n-Hexane	86.175	1.010%	85,850	9.75	0.19
Other Hexanes	86.175	0.000%	0	0.00	0.00
Heptanes	100.202	0.555%	47,175	6.23	0.12
Benzene	78.114	0.042%	3,579	0.37	0.01
Toluene	92.141	0.025%	2,108	0.26	0.01
Ethylbenzene	106.167	0.004%	303	0.04	<0.01
Xylenes	106.167	0.013%	1,088	0.15	<0.01
Octanes	114.229	0.137%	11,645	1.75	0.04
2,2,4-Trimethylpentane	114.231	0.000%	0	0.00	0.00
Nonanes	128.255	0.020%	1,675	0.28	0.01
Decanes	142.282	0.000%	0	0.00	0.00
	Totals =	100.079%	**8,506,712**	**439.04**	**8.78**
		Total VOC =	**4,303,122**	**297.99**	**5.96**
		Total HAP =	**92,927**	**10.57**	**0.21**

Estimated Annual Volume 8,500,000 scf/yr Per Tank
Molar volume conversion @60° F and 1 atm: 1 lb/mole = 379.4 scf

Notes:

1) Condensate tanks contain stabilized condensate held at 25 psig by tank blanket gas. Tanks have relief valves that vent during various upset conditions. The gas vented would be a mixture of tank vapors and blanket (residue) gas. Flash gas composition used for emissions calculations for a conservative estimate. Annual vented volume is an overestimation of emissions.

2) Calculated as follows: Total Losses scf/yr * mol% of component.
3) Calculated as follows: component scf/yr / 379.4 molar volume conversion * MW component / 2000 lb/ton.

4) Vented emissions are routed to the flare for 98% destruction efficiency. Uncontrolled vs. controlled emissions shown here to demonstrate tank emissions are less than 6 TPY and that the tanks are not subject to NSPS OOOOa. Emissions reported at the flare.

Schneider, Kyla K.

From: Bedingfield, Deborah A. <Deborah.Bedingfield@oneok.com>
Sent: Friday, October 16, 2026 12:01 PM
To: Schneider, Kyla K.; McDaniel, Paige B.
Cc: Hills, Joshua; Nies, Storm
Subject: RE: (External) AQ Draft Title V for ONEOK Demicks Lake Gas Plant - ONEOK Rockies Midstream, L.L.C. (ORM)

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Flag Status: Flagged

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Thank you so much Kyla and Paige for meeting with us yesterday to discuss the Demicks Lake Gas Plant Title V permit renewal. The following summarizes our discussion:

1) The eight (8) pressurized bullet tanks contain stabilized condensate held at 25 psig by tank blanket gas. The tanks have relief valves that vent during various upset conditions and emissions are controlled when pressure exceedances occur. The tanks were represented in the Title V renewal application as upset events and not part of Demicks Lake Gas Plant normal operations. The gas vented from a bullet tank, during an upset event, would be a mixture of tank vapors and blanket (residue) gas, and the annual vented volume was represented as an overestimation of emissions during upset events. During normal operations, the tanks have actual emissions less than 6 tons per year, per tank, thus are exempt from NSPS OOOOa applicability.
2) The four (4) 400-bbl slop water tanks potential to emit emissions represented in the Title V renewal application, are below the 6 tons per year, per tank, thus are exempt from NSPS OOOOa applicability.

Again, thank you very much for meeting with us yesterday (10/15/26) to discuss the above. We truly appreciate it.

Please do not hesitate to contact us if you need additional information.

Respectfully,

Debbie

ONEOK

Debbie Bedingfield
Environmental Professional II
100 W. Fifth Street
Tulsa, Okla. 74103
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Phone: 918-732-1485
Email: Deborah.Bedingfield@oneok.com
Join Our Team

From: Schneider, Kyla K. <kkschneider@nd.gov>
Sent: Wednesday, October 7, 2026 1:09 PM
To: Bedingfield, Deborah A. <Deborah.Bedingfield@oneok.com>

Schneider, Kyla K.

From: Nies, Storm <Storm.Nies@oneok.com>
Sent: Wednesday, October 21, 2026 1:27 PM
To: McDaniel, Paige B.
Cc: Schneider, Kyla K.; Hills, Joshua; Bedingfield, Deborah A.; Danzeisen, Victoria L.
Subject: RE: (External) Demicks Lake Gas Plant

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Flag Status: Flagged

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Hey Paige,

The 15 Electric drive units would be referring to our reciprocating stabilizer and residue compressors under Oa.

From: McDaniel, Paige B. <pMcDaniel@nd.gov>
Sent: Tuesday, October 20, 2026 12:02 PM
To: Bedingfield, Deborah A. <Deborah.Bedingfield@oneok.com>
Cc: Schneider, Kyla K. <kkschneider@nd.gov>; Hills, Joshua <Joshua.Hills@oneok.com>; Nies, Storm <Storm.Nies@oneok.com>
Subject: RE: (External) Demicks Lake Gas Plant

Thank you so much!

One more quick clarification question for my own sake: In the application are the reciprocating compressors that are specifically mentioned under the Quad-Oa applicability determination the same as the 15 electric motor compressors (as indicated in the Permit to Operate)?

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.

There are reciprocating compressors at the facility that are subject to this subpart. Any pneumatic controllers at the facility operate on instrument air; therefore, they are not subject to this subpart. The condensate tanks are pressurized with blanket gas and may have occasional venting emissions that will be routed to flare to ensure that total emissions are less than 6 tons per year; therefore, they are not subject to this subpart. The atmospheric 400-bbl slop water tanks are not subject to this subpart as they have emissions of less than 6 tons per year. ORM has established a federally enforceable emissions limitation of less than 6 tons per year for each of the condensate and slop water tanks to remain exempt from requirements of the subpart. The facility also has process piping fugitive components that are subject to leak detection and repair (LDAR) requirements.

Paige McDaniel

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From: Bedingfield, Deborah A. <Deborah.Bedingfield@oneok.com>
Sent: Tuesday, October 20, 2026 11:30 AM
To: McDaniel, Paige B. <pMcDaniel@nd.gov>
Cc: Schneider, Kyla K. <kkschneider@nd.gov>; Hills, Joshua <Joshua.Hills@oneok.com>; Nies, Storm <Storm.Nies@oneok.com>
Subject: RE: (External) Demicks Lake Gas Plant

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Good morning. We have confirmed the emergency generators (EGEN-1 through EGEN-3) are only backup generators to power the electrically driven compressors at the plant and are not the physical driver for the NSPS OOOOa applicable compressors.

Thank you for your review of the application, we greatly appreciate it. Please advise if you need additional information.

Respectfully,

Debbie

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Join Our Team

From: McDaniel, Paige B. <pMcDaniel@nd.gov>
Sent: Monday, October 19, 2026 4:11 PM
To: Hills, Joshua <Joshua.Hills@oneok.com>; Bedingfield, Deborah A. <Deborah.Bedingfield@oneok.com>
Cc: Schneider, Kyla K. <kkschneider@nd.gov>
Subject: (External) Demicks Lake Gas Plant

Good Afternoon,

I'm reviewing the draft Permit to Operate for the Demicks Lake Gas Plant one final time and I noted that the emergency generators (EGEN-1 through EGEN-3) were designated as being having compressors that are applicable to NSPS OOOOa in Table 1.1 of the previous Permit to Operate. Are you able to verify that the generators are/are not powering reciprocating compressors and that those compressors are subject to NSPS OOOOa?

Thank you!

Paige McDaniel
Environmental Scientist
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Schneider, Kyla K.

From: Bedingfield, Deborah A. <Deborah.Bedingfield@oneok.com>
Sent: Tuesday, November 10, 2026 1:20 PM
To: Schneider, Kyla K.
Cc: Hills, Joshua; Danzeisen, Victoria L.; Nies, Storm
Subject: FW: (External) NDDEQ, AQ Draft Title V - ONEOK Rockies Midstream, L.L.C. - Demicks Lake Gas Plant
Attachments: AOP28419v2_0_DB Comments.docx; AOP28419v2_0sob_DB Comments.docx; DemicksLakeComparisonAOP28419v1_1vs2_0.docx

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Hello Kyla. Thank you very much for the opportunity to review the draft renewal Air Quality Title V Permit to Operate (PTO) and Statement of Basis (SOB) for the Demicks Lake Gas Plant. Attached are comments and updates to the draft renewal Title V Permit to Operate (PTO) and Statement of Basis (SOB), needed for clarification and correction. A summary of the responses is also listed below:

Title V Permit to Operate (PTO) Renewal:

- MC-1 through MC-15 (electric driven compressors) EU and EP identification is acceptable designations for the 15 electric motor reciprocating compressors; however, for recordkeeping clarity, ORM would like to add the additional EU descriptions as listed below:

1-CM 640	MC-1
1-CM 650	MC-2
1-CM 660	MC-3
1-CM 690	MC-4
1-CM 693	MC-5
1-CM 695	MC-6
2-CM 640	MC-7
2-CM 650	MC-8
2-CM 660	MC-9
2-CM 690	MC-10
2-CM 693	MC-11
2-CM 695	MC-12
3-CM 640	MC-13
3-CM 650	MC-14
3-CM 660	MC-15

- The “process piping fugitive emissions” verbiage can be removed from conditions C.3 and C.4, as they are part of EU FUG-5.

Statement of Basis:

- The “process piping fugitive emissions” verbiage can be removed as they are part of EU FUG-5.
- MC-1 through MC-15 (electric driven compressors) EU and EP identification is acceptable designations for the 15 electric motor reciprocating compressors; please incorporate the above listed EU descriptions.

- Table 1 Total HAPs should be corrected to **6.26** Tons Per Year with Fugitives and **5.7** Tons Per Year without Fugitives (error in previously submitted calculation).
- Table 1 VOC should be corrected to **86.6** Tons Per Year without Fugitives.

Please advise if you need additional information or have any questions regarding the above.

Again, thank you very much for the opportunity to review the draft Title V renewal and Statement of Basis.

Respectfully,

Debbie

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Join Our Team

From: Schneider, Kyla K. <kkschneider@nd.gov>
Sent: Wednesday, October 28, 2026 11:28 AM
To: Bedingfield, Deborah A. <Deborah.Bedingfield@oneok.com>; Hills, Joshua <Joshua.Hills@oneok.com>
Cc: Chrobak, Jeremy M. <Jeremy.Chrobak@oneok.com>; Nies, Storm <Storm.Nies@oneok.com>; Weltikol, Levi L. <Levi.Weltikol@oneok.com>; Danzeisen, Victoria L. <Victoria.Danzeisen@oneok.com>
Subject: (External) NDDEQ, AQ Draft Title V - ONEOK Rockies Midstream, L.L.C. - Demicks Lake Gas Plant

Good morning,

Attached is the draft renewal Air Quality Title V Permit to Operate (PTO), statement of basis (SOB) and a comparison document showing the changes from the current PTO for the Demicks Lake Gas Plant. There are a few comments provided in the draft document to request minor clarification or add context. Please provide updates and/or responses to the comments, as appropriate. Also, upon reviewing the documents, let me know if you have any additional requested changes for the draft PTO, and/or the SOB (feel free to red-line/add comments to the attached files and email back to me).

Once I hear back from you and we agree on the documents, the draft PTO and SOB will go out for a 30-day public comment period, followed by a 45-day EPA review.

I encourage you to reach out with questions or to discuss anything in detail.

Much appreciated,

Kyla K. Schneider
Environmental Scientist
Division of Air Quality

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