Table of Contents

(Submission #: HPX-VFC5-KPGE4, version 4) 2 Details 2 Form Input 2 Form Instructions 2 Section A - Applicant Information 2 Section B (Part 1) - Facility Information 3 Section C - Nature of Business 4 Section D - Process Equipment Information (1 of 10) 4 Emission Unit - C - 1 - C-6 4 Section D - Process Equipment Information (2 of 10) 5 Emission Unit - C - 1 - C-6 5 Section D - Process Equipment Information (3 of 10) 6 Emission Unit - FL-1 6 Section D - Process Equipment Information (6 of 10) 7 Emission Unit - FL-1 7 Section D - Process Equipment Information (6 of 10) 8 Emission Unit - MTK-1 8 Section D - Process Equipment Information (6 of 10) 9 Emission Unit - MTK-1 9 Section D - Process Equipment Information (8 of 10) 10 Emission Unit - MTK-1 9 Section D - Process Equipment Information (9 of 10) 11 Emission Unit - FUG 13	Table of Contents	1
Details 2 Form Input 2 Form Instructions 2 Section A - Applicant Information 2 Section B (Part 1) - Cality Information 3 Section B (Part 2) - Additional Location Information 4 Section C - Nature of Business 4 Section D - Process Equipment Information (1 of 10) 4 Emission Unit - C-1 - C-6 4 Section D - Process Equipment Information (3 of 10) 5 Emission Unit - C-3 - C-9 5 Section D - Process Equipment Information (3 of 10) 6 Emission Unit - L-1 6 Section D - Process Equipment Information (5 of 10) 7 Emission Unit - TK-1 8 Section D - Process Equipment Information (6 of 10) 9 Emission Unit - TK-1 8 Section D - Process Equipment Information (6 of 10) 9 Emission Unit - TK-1 - TK-10 9 Section D - Process Equipment Information (9 of 10) 10 Emission Unit - TK-1 - WTK-2 100 Section D - Process Equipment Information (9 of 10) 11 Emission Unit - EU	Air Title V Operating Permit (AOP) - New	2
Form Instructions 2 Form Instructions 2 Section A - Applicant Information 2 Section B (Part 1) - Facility Information 3 Section B (Part 1) - Facility Information (1 of 10) 4 Section D - Process Equipment Information (2 of 10) 4 Emission Unit - C - 6 44 Section D - Process Equipment Information (2 of 10) 5 Emission Unit - C - 6 5 Section D - Process Equipment Information (3 of 10) 6 Emission Unit - C - 6 5 Section D - Process Equipment Information (3 of 10) 6 Emission Unit - C - 7 5 Section D - Process Equipment Information (4 of 10) 7 Emission Unit - K - 1 7 Section D - Process Equipment Information (6 of 10) 8 Emission Unit - T-K - 1 7 Section D - Process Equipment Information (6 of 10) 9 Section D - Process Equipment Information (8 of 10) 10 Emission Unit - T-K - 1 7 Section D - Process Equipment Information (9 of 10) 11 Emission Unit - FUG 11 <td< td=""><td>(Submission #: HPX-VFC5-KPGE4, version 4)</td><td>2</td></td<>	(Submission #: HPX-VFC5-KPGE4, version 4)	2
Form Instructions 2 Section A - Applicant Information 2 Section B (Part 1) - Facility Information 3 Section B (Part 2) - Additional Location Information 4 Section D - Process Equipment Information (1 of 10) 4 Emission Unit - C-1 - C-6 44 Section D - Process Equipment Information (2 of 10) 55 Emission Unit - C-8 - C-9 55 Section D - Process Equipment Information (3 of 10) 6 Emission Unit - C-8 - C-9 55 Section D - Process Equipment Information (3 of 10) 6 Emission Unit - T-L-1 6 Section D - Process Equipment Information (5 of 10) 8 Emission Unit - MTK-1 77 Section D - Process Equipment Information (6 of 10) 9 Emission Unit - WTK-1 70 Section D - Process Equipment Information (6 of 10) 9 Section D - Process Equipment Information (7 of 10) 9 Emission Unit - WTK-1 - WTK-2 10 Section D - Process Equipment Information (10 of 10) 11 Emission Unit - FUG 11 Section D - Process Equipment Information (10 of	Details	2
Section A - Applicant Information 2 Section B (Part 1) - Facility information 3 Section D (Part 2) - Additional Location Information 4 Section D - Process Equipment Information (1 of 10) 4 Emission Unit - C-1 - C-6 44 Section D - Process Equipment Information (2 of 10) 5 Emission Unit - C-3 - C-9 55 Section D - Process Equipment Information (3 of 10) 6 Emission Unit - FL-1 6 Section D - Process Equipment Information (4 of 10) 7 Emission Unit - TK-1 7 Section D - Process Equipment Information (5 of 10) 8 Emission Unit - TK-1 8 Section D - Process Equipment Information (6 of 10) 9 Emission Unit - TK-1 8 Section D - Process Equipment Information (7 of 10) 10 Emission Unit - TK-1 7 Section D - Process Equipment Information (8 of 10) 11 Emission Unit - WTK-1 11 Section D - Process Equipment Information (10 of 10) 12 Emission Unit - UTL-1 11 Section D - Process Equipment Information (10 of 10)	Form Input	2
Section B (Part 1) - Facility Information 3 Section C Nature of Business 44 Section D - Process Equipment Information (1 of 10) 4 Emission Unit - C-1 - C-6 44 Section D - Process Equipment Information (2 of 10) 55 Emission Unit - C-3 - C-9 55 Section D - Process Equipment Information (3 of 10) 60 Emission Unit - C-4 66 Section D - Process Equipment Information (4 of 10) 77 Emission Unit - TL-1 66 Section D - Process Equipment Information (5 of 10) 80 Emission Unit - TK-1 78 Section D - Process Equipment Information (6 of 10) 81 Emission Unit - MTK-1 88 Section D - Process Equipment Information (6 of 10) 90 Emission Unit - MTK-1 78-10 Section D - Process Equipment Information (7 of 10) 100 Emission Unit - TK-1 - TK-10 90 Section D - Process Equipment Information (8 of 10) 11 Emission Unit - TL-1 111 Section D - Process Equipment Information (10 of 10) 12 Emission Unit : EU_D 111 <td>Form Instructions</td> <td>2</td>	Form Instructions	2
Section B (Part 1) - Facility Information 3 Section C - Nature of Business 4 Section D - Process Equipment Information (1 of 10) 4 Emission Unit - C-1 - C-6 4 Section D - Process Equipment Information (2 of 10) 5 Emission Unit - C-3 - C-9 5 Section D - Process Equipment Information (3 of 10) 6 Emission Unit - C-1 - C-1 6 Section D - Process Equipment Information (3 of 10) 7 Emission Unit - C-1 - 1 6 Section D - Process Equipment Information (4 of 10) 7 Emission Unit - TK-1 7 Section D - Process Equipment Information (5 of 10) 8 Emission Unit - MTK-1 8 Section D - Process Equipment Information (6 of 10) 9 Emission Unit - MTK-1 - TK-10 9 Section D - Process Equipment Information (7 of 10) 10 Emission Unit - TK-1 - TK-10 9 Section D - Process Equipment Information (8 of 10) 11 Emission Unit - TL - 1 11 Section D - Process Equipment Information (10 of 10) 12 Emission Unit - TL - 1 11<	Section A - Applicant Information	2
Section B (Part 2) - Additional Location Information 4 Section C - Nature of Business 4 Section D - Process Equipment Information (1 of 10) 4 Emission Unit - C-1 - C-6 4 Section D - Process Equipment Information (2 of 10) 5 Emission Unit - C-8 - C-9 5 Section D - Process Equipment Information (3 of 10) 6 Emission Unit - FL-1 6 Section D - Process Equipment Information (4 of 10) 7 Emission Unit - TK-1 6 Section D - Process Equipment Information (6 of 10) 8 Emission Unit - WK-1 7 Section D - Process Equipment Information (6 of 10) 9 Section D - Process Equipment Information (6 of 10) 9 Section D - Process Equipment Information (8 of 10) 10 Emission Unit - WK-1 - WTK-2 10 Section D - Process Equipment Information (8 of 10) 11 Emission Unit - TL-1 11 Section D - Process Equipment Information (9 of 10) 12 Emission Unit - TL-1 11 Section D - Process Equipment Information (10 of 10) 12 Emission Unit : EU		3
Section D - Process Equipment Information (1 of 10) 4 Emission Unit - C-1 - C-6 4 Section D - Process Equipment Information (2 of 10) 5 Emission Unit - C-8 - C-9 5 Section D - Process Equipment Information (3 of 10) 6 Emission Unit - LTk-1 6 Section D - Process Equipment Information (4 of 10) 7 Emission Unit - LTK-1 7 Section D - Process Equipment Information (5 of 10) 8 Emission Unit - TK-1 8 Section D - Process Equipment Information (6 of 10) 9 Emission Unit - TK-1 8 Section D - Process Equipment Information (7 of 10) 10 Emission Unit - TK-1 - WTK-2 10 Section D - Process Equipment Information (8 of 10) 11 Emission Unit - TK-1 - WTK-2 10 Section D - Process Equipment Information (9 of 10) 11 Emission Unit - FUG 11 Section D - Process Equipment (1 of 3) 12 Emission Unit - FUG 13 Section D - Process Equipment (1 of 3) 13 Emission Unit: EUD' - EUDESC' 13		4
Emission Unit - C-1 - C-6 4 Section D - Process Equipment Information (2 of 10) 5 Emission Unit - C-3 - C-9 5 Section D - Process Equipment Information (3 of 10) 6 Emission Unit - FL-1 6 Section D - Process Equipment Information (4 of 10) 7 Emission Unit - LTK-1 7 Section D - Process Equipment Information (5 of 10) 8 Emission Unit - MTK-1 8 Section D - Process Equipment Information (6 of 10) 9 Emission Unit - TK-1 7 Section D - Process Equipment Information (7 of 10) 9 Emission Unit - WTK-1 - WTK-2 10 Section D - Process Equipment Information (8 of 10) 11 Emission Unit - TL-1 11 Section D - Process Equipment Information (9 of 10) 11 Emission Unit - FUG 11 Section D - Process Equipment Information (10 of 10) 12 Emission Unit - EU 10 Section E - Control Equipment (1 of 3) 13 Emission Unit : EU_D - EU_DESC 13 Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE) <t< td=""><td>Section C - Nature of Business</td><td>4</td></t<>	Section C - Nature of Business	4
Section D - Process Equipment Information (2 of 10) 5 Emission Unit - C-8 - C-9 5 Section D - Process Equipment Information (3 of 10) 6 Emission Unit - FL-1 6 Section D - Process Equipment Information (4 of 10) 7 Emission Unit - LTK-1 7 Section D - Process Equipment Information (5 of 10) 8 Emission Unit - MTK-1 8 Section D - Process Equipment Information (6 of 10) 9 Emission Unit - MTK-1 8 Section D - Process Equipment Information (6 of 10) 9 Emission Unit - MTK-1 7 Section D - Process Equipment Information (6 of 10) 9 Section D - Process Equipment Information (8 of 10) 10 Emission Unit - TL-1 11 Section D - Process Equipment Information (9 of 10) 11 Emission Unit - FUG 11 Section D - Process Equipment Information (10 of 10) 12 Emission Unit - FUG 13 Section D - Process Equipment (1 of 3) 13 Emission Unit : EU_D' - 'EU_DESC' 13 Section E - Control Equipment (2 of 3) 13 </td <td>Section D - Process Equipment Information (1 of 10)</td> <td>4</td>	Section D - Process Equipment Information (1 of 10)	4
Emission Unit - C-8 - C-9 5 Section D - Process Equipment Information (3 of 10) 6 Emission Unit - FL-1 6 Section D - Process Equipment Information (4 of 10) 7 Emission Unit - TK-1 7 Section D - Process Equipment Information (5 of 10) 8 Emission Unit - MTK-1 8 Section D - Process Equipment Information (6 of 10) 9 Emission Unit - TK-1 - TK-10 9 Section D - Process Equipment Information (7 of 10) 10 Emission Unit - TK-1 - TK-10 9 Section D - Process Equipment Information (7 of 10) 10 Emission Unit - TL-1 11 Section D - Process Equipment Information (8 of 10) 11 Emission Unit - TL-1 11 Section D - Process Equipment Information (9 of 10) 11 Emission Unit - FUG 11 Section D - Process Equipment Information (10 of 10) 12 Emission Unit - EU_D : EU_DESC 13 Section F - Control Equipment (1 of 3) 13 Emission Unit: EU_D : EU_DESC 13 Section F - Control Equipment (3 of 3) 14	Emission Unit - C-1 - C-6	4
Emission Unit - C-8 - C-9 5 Section D - Process Equipment Information (3 of 10) 6 Emission Unit - FL-1 6 Section D - Process Equipment Information (4 of 10) 7 Emission Unit - TK-1 7 Section D - Process Equipment Information (5 of 10) 8 Emission Unit - MTK-1 8 Section D - Process Equipment Information (6 of 10) 9 Emission Unit - TK-1 - TK-10 9 Section D - Process Equipment Information (7 of 10) 10 Emission Unit - TK-1 - TK-10 9 Section D - Process Equipment Information (7 of 10) 10 Emission Unit - TL-1 11 Section D - Process Equipment Information (8 of 10) 11 Emission Unit - TL-1 11 Section D - Process Equipment Information (9 of 10) 11 Emission Unit - FUG 11 Section D - Process Equipment Information (10 of 10) 12 Emission Unit - EU_D : EU_DESC 13 Section F - Control Equipment (1 of 3) 13 Emission Unit: EU_D : EU_DESC 13 Section F - Control Equipment (3 of 3) 14	Section D - Process Equipment Information (2 of 10)	5
Section D - Process Equipment Information (3 of 10) 6 Emission Unit - FL-1 6 Section D - Process Equipment Information (4 of 10) 7 Emission Unit - LTK-1 7 Section D - Process Equipment Information (5 of 10) 8 Emission Unit - MTK-1 8 Section D - Process Equipment Information (6 of 10) 9 Emission Unit - TK-1 - TK-10 9 Section D - Process Equipment Information (7 of 10) 10 Emission Unit - TK-1 - TK-2 10 Section D - Process Equipment Information (7 of 10) 10 Emission Unit - TK-1 - TK-2 10 Section D - Process Equipment Information (8 of 10) 11 Emission Unit - TL-1 11 Section D - Process Equipment Information (9 of 10) 11 Emission Unit - FUG 11 Section D - Process Equipment Information (10 of 10) 12 Emission Unit - FUG 11 Section E - Control Equipment (1 of 3) 13 Emission Unit: EU_ID' - 'EU_DESC' 13 Section E - Control Equipment (3 of 3) 14 Emission Unit: 'EU_ID' - 'EU_DESC' 13		
Emission Unit - FL-1 6 Section D - Process Equipment Information (4 of 10) 7 Emission Unit - LTK-1 7 Section D - Process Equipment Information (5 of 10) 8 Emission Unit - MTK-1 8 Section D - Process Equipment Information (6 of 10) 9 Emission Unit - KT-1 7K-10 Section D - Process Equipment Information (7 of 10) 10 Emission Unit - WTK-1 - WTK-2 10 Section D - Process Equipment Information (8 of 10) 11 Emission Unit - TL-1 11 Section D - Process Equipment Information (8 of 10) 11 Emission Unit - TL-1 11 Section D - Process Equipment Information (9 of 10) 11 Emission Unit - EUG 11 Section D - Process Equipment Information (10 of 10) 12 Emission Unit - BD 12 Section E - Control Equipment (2 of 3) 13 Emission Unit: EU_D' - EU_DESC' 13 Section E - Control Equipment (3 of 3) 14 Emission Unit: EU_D' - EU_DESC' 14 Emission Unit: EU_D' - EU_DESC' 14 Sectio	Section D - Process Equipment Information (3 of 10)	
Emission Unit - LTK-1 7 Section D - Process Equipment Information (5 of 10) 8 Emission Unit - MTK-1 8 Section D - Process Equipment Information (6 of 10) 9 Emission Unit - TK-1 - TK-10 9 Section D - Process Equipment Information (7 of 10) 10 Emission Unit - WTK-1 - WTK-2 10 Section D - Process Equipment Information (8 of 10) 11 Emission Unit - WTK-1 11 Section D - Process Equipment Information (9 of 10) 11 Emission Unit - TL-1 11 Section D - Process Equipment Information (9 of 10) 11 Emission Unit - FUG 11 Section D - Process Equipment (1 of 3) 12 Emission Unit - BD 12 Section E - Control Equipment (1 of 3) 13 Emission Unit : EU_ID '- EU_DESC' 13 Section F - Control Equipment (3 of 3) 14 Emission Unit : EU_ID '- EU_DESC' 14 Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE) 14 Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE) 14 Section H - Flex		6
Emission Unit - LTK-1 7 Section D - Process Equipment Information (5 of 10) 8 Emission Unit - MTK-1 8 Section D - Process Equipment Information (6 of 10) 9 Emission Unit - TK-1 - TK-10 9 Section D - Process Equipment Information (7 of 10) 10 Emission Unit - WTK-1 - WTK-2 10 Section D - Process Equipment Information (8 of 10) 11 Emission Unit - WTK-1 11 Section D - Process Equipment Information (9 of 10) 11 Emission Unit - TL-1 11 Section D - Process Equipment Information (9 of 10) 11 Emission Unit - FUG 11 Section D - Process Equipment Information (10 of 10) 12 Emission Unit - BD 12 Section E - Control Equipment (1 of 3) 13 Emission Unit : EU_ID '- EU_DESC' 13 Section F - Control Equipment (3 of 3) 14 Emission Unit : EU_ID '- EU_DESC' 14 Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE) 14 Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE) 14 Se	Section D - Process Equipment Information (4 of 10)	7
Emission Unit - MTK-1 8 Section D - Process Equipment Information (6 of 10) 9 Emission Unit - TK-1 - TK-10 9 Section D - Process Equipment Information (7 of 10) 10 Emission Unit - WTK-1 - WTK-2 10 Section D - Process Equipment Information (8 of 10) 11 Emission Unit - WTK-1 - WTK-2 10 Section D - Process Equipment Information (8 of 10) 11 Emission Unit - TL-1 11 Section D - Process Equipment Information (9 of 10) 11 Emission Unit - FUG 11 Section D - Process Equipment Information (10 of 10) 12 Emission Unit - BD 12 Section E - Control Equipment (1 of 3) 13 Emission Unit : EU_ID - EU_DESC 13 Section F - Control Equipment (3 of 3) 14 Emission Unit : EU_ID - EU_DESC 14 Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE) 14 Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE) 14 Section H - Flexible Permits 15 Section I - Compliance Assurance Monitoring (CAM) 15		7
Emission Unit - MTK-1 8 Section D - Process Equipment Information (6 of 10) 9 Emission Unit - TK-1 - TK-10 9 Section D - Process Equipment Information (7 of 10) 10 Emission Unit - WTK-1 - WTK-2 10 Section D - Process Equipment Information (8 of 10) 11 Emission Unit - WTK-1 - WTK-2 10 Section D - Process Equipment Information (8 of 10) 11 Emission Unit - TL-1 11 Section D - Process Equipment Information (9 of 10) 11 Emission Unit - FUG 11 Section D - Process Equipment Information (10 of 10) 12 Emission Unit - FUG 11 Section E - Control Equipment (1 of 3) 13 Emission Unit: EUD - 'EUDESC' 13 Section E - Control Equipment (2 of 3) 13 Emission Unit: EUD - 'EUDESC' 14 Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE) 14 Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE) 14 Section H - Flexible Permits 15 Section H - Flexible Permits 15 Section	Section D - Process Equipment Information (5 of 10)	8
Emission Unit - TK-1 - TK-109Section D - Process Equipment Information (7 of 10)10Emission Unit - WTK-1 - WTK-210Section D - Process Equipment Information (8 of 10)11Emission Unit - TL-111Section D - Process Equipment Information (9 of 10)11Emission Unit - FUG11Section D - Process Equipment Information (10 of 10)12Emission Unit - BD12Section E - Control Equipment (1 of 3)13Emission Unit : EU_D' - 'EU_DESC'13Section E - Control Equipment (2 of 3)13Emission Unit : EU_D' - 'EU_DESC'13Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)14Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)14Section I - Compliance Schedule15Section I - Compliance Assurance Monitoring (CAM)15Section K - General Document Upload15Attachments16Status History17Audit17Revisions17		8
Emission Unit - TK-1 - TK-109Section D - Process Equipment Information (7 of 10)10Emission Unit - WTK-1 - WTK-210Section D - Process Equipment Information (8 of 10)11Emission Unit - TL-111Section D - Process Equipment Information (9 of 10)11Emission Unit - FUG11Section D - Process Equipment Information (10 of 10)12Emission Unit - BD12Section E - Control Equipment (1 of 3)13Emission Unit : EU_D' - 'EU_DESC'13Section E - Control Equipment (2 of 3)13Emission Unit : EU_D' - 'EU_DESC'13Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)14Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)14Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)15Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)15Section F - General Document Upload15Attachments16Status History17Audit17Revisions17	Section D - Process Equipment Information (6 of 10)	9
Emission Unit - WTK-1 - WTK-210Section D - Process Equipment Information (8 of 10)11Emission Unit - TL-111Section D - Process Equipment Information (9 of 10)11Emission Unit - FUG11Section D - Process Equipment Information (10 of 10)12Emission Unit - BD12Section E - Control Equipment (1 of 3)13Emission Unit : EU_ID' - 'EU_DESC'13Section E - Control Equipment (2 of 3)13Emission Unit : EU_D' - 'EU_DESC'13Section F - Control Equipment (3 of 3)14Emission Unit : EU_D' - 'EU_DESC'13Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)14Section G - Compliance Schedule15Section H - Flexible Permits15Section I - Compliance Assurance Monitoring (CAM)15Section I - Compliance Assurance Monitoring (CAM)15Status History17Audit17Revisions17		9
Emission Unit - WTK-1 - WTK-210Section D - Process Equipment Information (8 of 10)11Emission Unit - TL-111Section D - Process Equipment Information (9 of 10)11Emission Unit - FUG11Section D - Process Equipment Information (10 of 10)12Emission Unit - BD12Section E - Control Equipment (1 of 3)13Emission Unit: 'EU_D' - 'EU_DESC'13Section E - Control Equipment (2 of 3)13Emission Unit: 'EU_D' - 'EU_DESC'13Section F - Control Equipment (3 of 3)14Emission Unit: 'EU_D' - 'EU_DESC'13Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)14Section G - Compliance Schedule15Section I - Compliance Assurance Monitoring (CAM)15Section I - Compliance Assurance Monitoring (CAM)15Section K - General Document Upload16Attachments16Status History17Audit17Revisions17	Section D - Process Equipment Information (7 of 10)	10
Emission Unit - TL-111Section D - Process Equipment Information (9 of 10)11Emission Unit - FUG11Section D - Process Equipment Information (10 of 10)12Emission Unit - BD12Section E - Control Equipment (1 of 3)13Emission Unit: 'EU_ID' - 'EU_DESC'13Section E - Control Equipment (2 of 3)13Emission Unit: 'EU_ID' - 'EU_DESC'13Section E - Control Equipment (3 of 3)14Emission Unit: 'EU_ID' - 'EU_DESC'14Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)14Section H - Flexible Permits15Section H - Flexible Permits15Section K - General Document Upload15Attachments16Status History17Audit17Revisions17		10
Emission Unit - TL-111Section D - Process Equipment Information (9 of 10)11Emission Unit - FUG11Section D - Process Equipment Information (10 of 10)12Emission Unit - BD12Section E - Control Equipment (1 of 3)13Emission Unit: 'EU_ID' - 'EU_DESC'13Section E - Control Equipment (2 of 3)13Emission Unit: 'EU_ID' - 'EU_DESC'13Section E - Control Equipment (3 of 3)14Emission Unit: 'EU_ID' - 'EU_DESC'14Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)14Section G - Compliance Schedule15Section H - Flexible Permits15Section K - General Document Upload15Attachments16Status History17Audit17Revisions17	Section D - Process Equipment Information (8 of 10)	11
Emission Unit - FUG11Section D - Process Equipment Information (10 of 10)12Emission Unit - BD12Section E - Control Equipment (1 of 3)13Emission Unit: `EU_ID` - `EU_DESC`13Section E - Control Equipment (2 of 3)13Emission Unit: `EU_ID` - `EU_DESC`13Section E - Control Equipment (3 of 3)14Emission Unit: `EU_ID` - `EU_DESC`13Section F - Control Equipment (3 of 3)14Emission Unit: `EU_ID` - `EU_DESC`14Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)14Section G - Compliance Schedule15Section H - Flexible Permits15Section I - Compliance Assurance Monitoring (CAM)15Section K - General Document Upload15Attachments16Status History17Audit17Revisions17		11
Emission Unit - FUG11Section D - Process Equipment Information (10 of 10)12Emission Unit - BD12Section E - Control Equipment (1 of 3)13Emission Unit: `EU_ID' - `EU_DESC'13Section E - Control Equipment (2 of 3)13Emission Unit: `EU_ID' - `EU_DESC'13Section E - Control Equipment (3 of 3)14Emission Unit: `EU_ID' - `EU_DESC'13Section F - Control Equipment (3 of 3)14Emission Unit: `EU_ID' - `EU_DESC'14Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)14Section G - Compliance Schedule15Section H - Flexible Permits15Section I - Compliance Assurance Monitoring (CAM)15Section K - General Document Upload15Attachments16Status History17Audit17Revisions17	Section D - Process Equipment Information (9 of 10)	11
Emission Unit - BD12Section E - Control Equipment (1 of 3)13Emission Unit: 'EU_ID' - 'EU_DESC'13Section E - Control Equipment (2 of 3)13Emission Unit: 'EU_ID' - 'EU_DESC'13Section E - Control Equipment (3 of 3)14Emission Unit: 'EU_ID' - 'EU_DESC'14Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)14Section G - Compliance Schedule15Section I - Compliance Assurance Monitoring (CAM)15Section K - General Document Upload15Attachments16Status History17Audit17Revisions17		11
Emission Unit - BD12Section E - Control Equipment (1 of 3)13Emission Unit: 'EU_ID' - 'EU_DESC'13Section E - Control Equipment (2 of 3)13Emission Unit: 'EU_ID' - 'EU_DESC'13Section E - Control Equipment (3 of 3)14Emission Unit: 'EU_ID' - 'EU_DESC'14Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)14Section G - Compliance Schedule15Section H - Flexible Permits15Section I - Compliance Assurance Monitoring (CAM)15Section K - General Document Upload16Status History17Audit17Revisions17	Section D - Process Equipment Information (10 of 10)	12
Emission Unit: `EU_ID` - `EU_DESC`13Section E - Control Equipment (2 of 3)13Emission Unit: `EU_ID` - `EU_DESC`13Section E - Control Equipment (3 of 3)14Emission Unit: `EU_ID` - `EU_DESC`14Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)14Section G - Compliance Schedule15Section I - Compliance Assurance Monitoring (CAM)15Section K - General Document Upload15Attachments16Status History17Audit17Revisions17		12
Emission Unit: `EU_ID` - `EU_DESC`13Section E - Control Equipment (2 of 3)13Emission Unit: `EU_ID` - `EU_DESC`13Section E - Control Equipment (3 of 3)14Emission Unit: `EU_ID` - `EU_DESC`14Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)14Section G - Compliance Schedule15Section I - Flexible Permits15Section I - Compliance Assurance Monitoring (CAM)15Section K - General Document Upload15Attachments16Status History17Audit17Revisions17	Section E - Control Equipment (1 of 3)	13
Section E - Control Equipment (2 of 3)13Emission Unit: `EU_ID` - `EU_DESC`13Section E - Control Equipment (3 of 3)14Emission Unit: `EU_ID` - `EU_DESC`14Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)14Section G - Compliance Schedule15Section H - Flexible Permits15Section I - Compliance Assurance Monitoring (CAM)15Section K - General Document Upload15Attachments16Status History17Audit17Revisions17		
Emission Unit: `EU_ID` - `EU_DESC`13Section E - Control Equipment (3 of 3)14Emission Unit: `EU_ID` - `EU_DESC`14Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)14Section G - Compliance Schedule15Section H - Flexible Permits15Section I - Compliance Assurance Monitoring (CAM)15Section K - General Document Upload15Attachments16Status History17Audit17Revisions17		
Section E - Control Equipment (3 of 3)14Emission Unit: `EU_ID` - `EU_DESC`14Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)14Section G - Compliance Schedule15Section H - Flexible Permits15Section I - Compliance Assurance Monitoring (CAM)15Section K - General Document Upload15Attachments16Status History17Audit17Revisions17		
Emission Unit: `EU_ID` - `EU_DESC`14Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)14Section G - Compliance Schedule15Section H - Flexible Permits15Section I - Compliance Assurance Monitoring (CAM)15Section K - General Document Upload15Attachments16Status History17Audit17Revisions17		
Section F - Facility-Wide Applicable Regulations and Potential to Emit (PTE)14Section G - Compliance Schedule15Section H - Flexible Permits15Section I - Compliance Assurance Monitoring (CAM)15Section K - General Document Upload15Attachments16Status History17Audit17Revisions17		14
Section G - Compliance Schedule15Section H - Flexible Permits15Section I - Compliance Assurance Monitoring (CAM)15Section K - General Document Upload15Attachments16Status History17Audit17Revisions17		
Section H - Flexible Permits15Section I - Compliance Assurance Monitoring (CAM)15Section K - General Document Upload15Attachments16Status History17Audit17Revisions17		15
Section K - General Document Upload15Attachments16Status History17Audit17Revisions17		
Section K - General Document Upload15Attachments16Status History17Audit17Revisions17	Section I - Compliance Assurance Monitoring (CAM)	
Attachments16Status History17Audit17Revisions17		
Status History17Audit17Revisions17		
Audit 17 Revisions 17	Status History	
Revisions 17		
	Revisions	
	Agreements and Signature(s)	19

Air Title V Operating Permit (AOP) - New

version 2.5

(Submission #: HPX-VFC5-KPGE4, version 4)

Details

Submission ID HPX-VFC5-KPGE4

Status

In Process

CORRECTION REQUEST (APPROVED) Forms for TK-7 & TK-8

The attached forms provided for TK-7 and TK-8 appear to have some kind of upload/saving issue and parts are not readable or don't make sense in areas. Please review and provide updated forms for Beavertail_4_TK-7_SFN61006_Print.pdf and Beavertail_4_TK-8_SFN61006_Print.pdf. Feel free to reach out with any questions. Created on 10/19/2023 10:02 AM by **Schneider, K.**

1 COMMENT

Schneider, Kyla K. (kkschneider@nd.gov) (11/3/2023 7:38 AM) Resubmittal of forms look good; thank you.

Form Input

Form Instructions

Section A - Applicant Information

Owner

Address

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

100 W. Fifth St. Oklahoma, OK 74103 United States

Responsible Official

Prefix

NONE PROVIDED

First Name Last Name

Dick Vande Bossche

Title

Vice President - ONEOK Rockies and Midstream Operations

Number

Phone Type

Extension

Business 406-489-1544

Email

dick.vandebossche@oneok.com

Address

100 W. Fifth St. Tulsa, OK 74103

United States

Contact Person for Air Pollution Matters

Prefix NONE PROVIDED

First NameLast NameKaleHanner

Title

Supervisor - Environmental Compliance

Phone Type Number Extension

Mobile 918-845-5033

Email Kale.Hanner@oneok.com

Address

100 W. Fifth St. Tulsa, OK 74103 United States

Section B (Part 1) - Facility Information

Facility Name

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

Is this a portable source? No

Facility Location

S25 T105N 97W Watford City, ND 58854 United States

County McKenzie

Facility Location: 47.78586,-103.04027

Please download the form linked here, complete it, and upload it to this application using the attachment control below.

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

Upload/File Upload section, only fill out the required (asterisked) sections of the online application. <u>PERMIT APPLICATION FOR TITLE V PERMIT TO OPERATE (SFN52858)</u>

Attach completed form here

SFN52858_signed.pdf - 09/29/2023 11:39 AM Comment NONE PROVIDED

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

Section B (Part 2) - Additional Location Information

Legal Description of Facility Site

Qtr Qtr	Qtr	Section	Township	Range
SENW	NW	25	150N	97W

Land area at facility site (in sq. ft.) 566280.00

Mean sea level (MSL) elevation at facility (in feet) 2285.0

Section C - Nature of Business

General Nature of Business

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

Actual Start of Construction Date

03/16/2018

Actual End of Construction Date 08/03/2022

Facility Startup Date

08/03/2022

Section D - Process Equipment Information (1 of 10)

Emission Unit - C-1 - C-6

Emission Unit ID C-1 - C-6

Emission Unit Description Compressor Engine

Emission Point ID C-1 - C-6

Emission Point Description Compressor Engine

Emission Process Description Compressor Engine

Emission Unit Status Existing, no change

Applicable PTCs

PTC Number

ACP-018131

Applicable Federal Air Programs

Program Code

New Source Performance Standards New Source Review Permit Requirements

40 CFR Part 63 Area Sources

NSPS Air Program Subparts

Subpart

Subpart

Regulation

Subpart JJJJ - STATIONARY SPARK IGNITION INTERNAL COMBUSTION ENGINES

Area Source MACT Air Program Subparts

Subpart ZZZZ - STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES (RICE)

Applicable State Regulations

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

33.1-15-08. Control of Air Pollution from Vehicles and Other Internal Combustion Engines.

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. <u>EMISSION UNIT FOR TITLE V PERMIT TO OPERATE (SFN61006)</u>

Attach Emission Unit Form

Beavertail 2 C-1 SFN61006 Print.pdf - 09/29/2023 10:43 AM Beavertail 2 C-2 SFN61006 Print.pdf - 09/29/2023 10:49 AM Beavertail 2 C-6 SFN61006 Print.pdf - 09/29/2023 10:49 AM Beavertail 2 C-3 SFN61006 Print.pdf - 09/29/2023 10:49 AM Beavertail 2 C-5 SFN61006 Print.pdf - 09/29/2023 10:49 AM Beavertail 2 C-4 SFN61006 Print.pdf - 09/29/2023 10:49 AM Comment NONE PROVIDED

Section D - Process Equipment Information (2 of 10)

Emission Unit - C-8 - C-9

Emission Unit ID C-8 - C-9

Emission Unit Description Compressor Engine

Emission Point ID C-8 - C-9

Emission Point Description Compressor Engine

Emission Process Description

Compressor Engine

Emission Unit Status

Existing, no change

Applicable PTCs

ACP-018131

Applicable Federal Air Programs

Program Code

New Source Performance Standards

New Source Review Permit Requirements

40 CFR Part 63 Area Sources

NSPS Air Program Subparts

Subpart
Subpart JJJJ - STATIONARY SPARK IGNITION INTERNAL COMBUSTION ENGINES

Subpart

Area Source MACT Air Program Subparts

Subpart ZZZZ - STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES (RICE)

Applicable State Regulations

33.1-15-03-03. Visible Emissions. Restrictions applicable to fugitive emissions.		Regulation
	33.1-15-03-03.	. Visible Emissions. Restrictions applicable to fugitive emissions.
33.1-15-18. Stack Heights.	33.1-15-18. Sta	tack Heights.

Emission Unit form

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

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Attach Emission Unit Form

Beavertail 2 C-9 SFN61006 Print.pdf - 09/29/2023 10:53 AM Beavertail 2 C-8 SFN61006 Print.pdf - 09/29/2023 10:53 AM Comment NONE PROVIDED

Section D - Process Equipment Information (3 of 10)

Emission Unit - FL-1

Emission Unit ID FL-1

Emission Unit Description Plant Flare

Emission Point ID FL-1

Emission Point Description

Plant Flare

Emission Process Description

Plant Flare

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number

PTC18044

Applicable Federal Air Programs

Program Code

New Source Performance Standards

NSPS Air Program Subparts

Subpart

Subpart A - GENERAL PROVISIONS

Applicable State Regulations

Regulation

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

Emission Unit form

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Attach Emission Unit Form

Beavertail_3_FL-1_SFN61006_Print.pdf - 09/29/2023 10:56 AM Comment NONE PROVIDED

Section D - Process Equipment Information (4 of 10)

Emission Unit - LTK-1

Emission Unit ID LTK-1

Emission Unit Description Storage Tank

Emission Point ID LTK-1

Emission Point Description Storage Tank

Emission Process Description Storage Tank

Emission Unit Status Existing, no change

Applicable PTCs

PTC Number

PTC18044

Applicable Federal Air Programs

Program Code

Applicable State Regulations

Regulation

33.1-15-07-01.3. Requirements for construction of organic compounds facilities. Submerged fill pipes required.

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. <u>EMISSION UNIT FOR TITLE V PERMIT TO OPERATE (SFN61006)</u>

Attach Emission Unit Form

Beavertail_4_LTK-1_SFN61006_Print.pdf - 09/29/2023 10:58 AM Comment NONE PROVIDED

Section D - Process Equipment Information (5 of 10)

Emission Unit - MTK-1

Emission Unit ID MTK-1

Emission Unit Description Storage Tank

Emission Point ID MTK-1

Emission Point Description Methanol Storage Tank

Emission Process Description

Methanol Storage Tank

Emission Unit Status Existing, no change

Applicable PTCs

PTC Number

PTC18044

Applicable Federal Air Programs

Program Code

Applicable State Regulations

Regulation

33.1-15-07-01.3. Requirements for construction of organic compounds facilities. Submerged fill pipes required.

Emission Unit form

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Attach Emission Unit Form

Beavertail_4_MTK-1_SFN61006_Print.pdf - 09/29/2023 10:59 AM Comment NONE PROVIDED

Section D - Process Equipment Information (6 of 10)

Emission Unit - TK-1 - TK-10

Emission Unit ID TK-1 - TK-10

Emission Unit Description Storage Tank

Emission Point ID TK-1 - TK-10

Emission Point Description Condensate Storage Tank

Emission Process Description Condensate Storage Tank

Emission Unit Status Existing, no change

Applicable PTCs

PTC Number

PTC18044

Applicable Federal Air Programs

Program Code

Applicable State Regulations

Regulation

33.1-15-07-01.3. Requirements for construction of organic compounds facilities. Submerged fill pipes required.

Emission Unit form

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Attach Emission Unit Form

Beavertail_4_TK-1_SFN61006_Print.pdf - 09/29/2023 11:02 AM
Beavertail_4_TK-3_SFN61006_Print.pdf - 09/29/2023 11:02 AM
Beavertail_4_TK-4_SFN61006_Print.pdf - 09/29/2023 11:02 AM
Beavertail_4_TK-6_SFN61006_Print.pdf - 09/29/2023 11:02 AM
Beavertail 4 TK-2 SFN61006 Print.pdf - 09/29/2023 11:02 AM
Beavertail 4 TK-10 SFN61006 Print.pdf - 09/29/2023 11:02 AM
Beavertail_4_TK-5_SFN61006_Print.pdf - 09/29/2023 11:02 AM
Beavertail 4 TK-9 SFN61006 Print.pdf - 10/19/2023 10:07 AM
Beavertail 4 TK-7 SFN61006 Print.pdf - 10/19/2023 10:09 AM
Beavertail 4 TK-8 SFN61006 Print.pdf - 10/19/2023 10:09 AM
Comment
NONE PROVIDED

Section D - Process Equipment Information (7 of 10)

Emission Unit - WTK-1 - WTK-2

Emission Unit ID WTK-1 - WTK-2

Emission Unit Description Storage Tank

Emission Point ID WTK-1 - WTK-2

Emission Point Description Produced Water Storage Tank

Emission Process Description Produced Water Storage Tank

Emission Unit Status

Existing, no change

Applicable PTCs

PTC18044

Applicable Federal Air Programs

Program Code

PTC Number

Applicable State Regulations

Regulation

33.1-15-07-01.3. Requirements for construction of organic compounds facilities. Submerged fill pipes required.

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 sections of the online application. <u>EMISSION UNIT FOR TITLE V PERMIT TO OPERATE (SFN61006)</u>

Attach Emission Unit Form

Beavertail_4_WTK-2_SFN61006_Print.pdf - 09/29/2023 11:04 AM Beavertail_4_WTK-1_SFN61006_Print.pdf - 09/29/2023 11:04 AM Comment NONE PROVIDED

Section D - Process Equipment Information (8 of 10)

Emission Unit - TL-1

Emission Unit ID TL-1

Emission Unit Description Truck Loading

Emission Point ID TL-1

Emission Point Description Condensate Truck Loading

Emission Process Description

Condensate Truck Loading

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number

PTC18044

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.

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Attach Emission Unit Form

Beavertail_5_TL-1_SFN61006_Print.pdf - 09/29/2023 11:05 AM Comment NONE PROVIDED

Section D - Process Equipment Information (9 of 10)

Emission Unit - FUG

Emission Unit ID FUG

Emission Unit Description Fugitive Components

Emission Point ID FUG

Emission Point Description

Fugitive Components

Emission Process Description

Fugitive Components

Emission Unit Status

Existing, no change

Applicable PTCs

PTC Number

PTC18044

Applicable Federal Air Programs

Program Code

New Source Performance Standards

NSPS Air Program Subparts

Subpart

Subpart OOOOa - CRUDE OIL/NATURAL GAS PRODUCTION/TRANSMISSION & DISTRIBUTION (post 9/18/15)

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. <u>EMISSION UNIT FOR TITLE V PERMIT TO OPERATE (SFN61006)</u>

Attach Emission Unit Form

Beavertail_6_FUG_SFN61006_Print.pdf - 09/29/2023 11:06 AM Comment NONE PROVIDED

Section D - Process Equipment Information (10 of 10)

Emission Unit - BD

Emission Unit ID BD

Emission Unit Description Vents and Blowdowns

Emission Point ID BD

Emission Point Description Vents and Blowdowns

Emission Process Description Vents and Blowdowns

Emission Unit Status Existing, no change **PTC Number**

PTC18044

Applicable Federal Air Programs

Program Code

Applicable State Regulations

Regulation

33.1-15-07-02. Requirements for organic compounds gas disposal.

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

Beavertail_7_BD_SFN61006_Print.pdf - 09/29/2023 11:08 AM Comment NONE PROVIDED

Section E - Control Equipment (1 of 3)

Emission Unit: `EU_ID` - `EU_DESC`

Control Equipment ID

Vapor Recovery Unit

Control Equipment Description

Vapor Recovery Unit

Control equipment form

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

When completing the online application, if uploaded files are provided in each section (when indicated), do not include those same files in the General Document Upload/File Upload section. If uploading the application files in the General Document Upload/File Upload section, only fill out the required (asterisked) sections of the online application. Control equipment form - SFN8532

Attach Control Equipment Form

Beavertail_SFN8532 (VRU).pdf - 09/29/2023 11:13 AM Comment NONE PROVIDED

Section E - Control Equipment (2 of 3)

Emission Unit: `EU_ID` - `EU_DESC`

Control Equipment ID C-1 - C-6

Control Equipment Description Oxidation Catalyst

Control equipment form

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

When completing the online application, if uploaded files are provided in each section (when indicated), do not include those same files in the General Document Upload/File Upload section. If uploading the application files in the General Document Upload/File Upload section, only fill out the required (asterisked) sections of the online application. <u>Control equipment form - SFN8532</u>

Attach Control Equipment Form

Beavertail_C-1-C-6-Catalyst (SFN8532).pdf - 09/29/2023 11:14 AM Comment NONE PROVIDED

Section E - Control Equipment (3 of 3)

Emission Unit: `EU_ID` - `EU_DESC`

Control Equipment ID C-8 - C-9

Control Equipment Description

Oxidation Catalyst

Control equipment form

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

When completing the online application, if uploaded files are provided in each section (when indicated), do not include those same files in the General Document Upload/File Upload section. If uploading the application files in the General Document Upload/File Upload section, only fill out the required (asterisked) sections of the online application. <u>Control equipment form - SFN8532</u>

Attach Control Equipment Form

Beavertail_C-8-C-9-Catalyst (SFN8532).pdf - 09/29/2023 11:14 AM 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	112.92	112.92
СО	89.60	89.60
VOCs	164.38	175.41
SO2	0.28	0.28
РМ	5.35	5.35
PM10	5.35	5.35
PM2.5	5.35	5.35
Total HAPs	11.99	13.21

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

2021-05_Beavertail_EmEst_Planned.pdf - 09/29/2023 11:17 AM Comment NONE PROVIDED

Section G - Compliance Schedule

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

When completing the online application, if uploaded files are provided in each section (when indicated), do not include those same files in the General Document Upload/File Upload section. If uploading the application files in the General Document Upload/File Upload section, only fill out the required (asterisked) sections of the online application. <u>COMPLIANCE SCHEDULE AND PLAN FOR TITLE V PERMIT TO OPERATE (SFN61008)</u>

Attach completed form here

Beavertail 8b FL-1 Compliance Plan SFN61008 Print.pdf - 09/29/2023 11:24 AM Beavertail 8a C-6 Compliance Plan SFN61008 Print.pdf - 09/29/2023 11:24 AM Beavertail 8c FUG Compliance Plan SFN61008 Print.pdf - 09/29/2023 11:24 AM Beavertail 8a C-3 Compliance Plan SFN61008 Print.pdf - 09/29/2023 11:24 AM Beavertail 8a C-5 Compliance Plan SFN61008 Print.pdf - 09/29/2023 11:24 AM Beavertail 8a C-9 Compliance Plan SFN61008 Print.pdf - 09/29/2023 11:24 AM Beavertail 8a C-2 Compliance Plan SFN61008 Print.pdf - 09/29/2023 11:24 AM Beavertail 8a C-2 Compliance Plan SFN61008 Print.pdf - 09/29/2023 11:24 AM Beavertail 8a C-4 Compliance Plan SFN61008 Print.pdf - 09/29/2023 11:24 AM Beavertail 8a C-4 Compliance Plan SFN61008 Print.pdf - 09/29/2023 11:24 AM Beavertail 8a C-1 Compliance Plan SFN61008 Print.pdf - 09/29/2023 11:24 AM Beavertail 8a C-8 Compliance Plan SFN61008 Print.pdf - 09/29/2023 11:24 AM Beavertail 8a C-7 Compliance Plan SFN61008 Print.pdf - 09/29/2023 11:24 AM

Section H - Flexible Permits

Are you requesting a flexible permit?

No

Section I - Compliance Assurance Monitoring (CAM)

To determine if your facility is subject to CAM, review the information provided at the link. Please provide new or modified CAM Plans here.

When completing the online application, if uploaded files are provided in each section (when indicated), do not include those same files in the General Document Upload/File Upload section. If uploading the application files in the General Document Upload/File Upload sections of the online application. Compliance Assurance Monitoring (CAM) Guidance

Attach completed form

NONE PROVIDED Comment NONE PROVIDED

Section K - General Document Upload

General Document 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 sections of the online application.

Attachments

Beavertail_PTO CvrLtr.pdf - 09/29/2023 11:26 AM 2021-06_Beavertail_PFD.pdf - 09/29/2023 11:26 AM Beavertail_TOC.pdf - 09/29/2023 11:26 AM 2021-06_Beavertail_PlotPlan.pdf - 09/29/2023 11:26 AM **Comment** NONE PROVIDED

Attachments

10/19/2023 10:09 AM Beavertail_4_TK-7_SFN61006_Print.pdf Attachment Joshua Hills 10/19/2023 10:09 AM Beavertail_4_TK-8_SFN61006_Print.pdf Attachment Joshua Hills 10/19/2023 11:30 AM SFN52856_signed.pdf Attachment Joshua Hills 9/29/2023 11:26 AM 2021-06_Beavertail_PIOTO_VLtr.pdf Attachment Joshua Hills 9/29/2023 11:26 AM Beavertail_TOC.pdf Attachment Joshua Hills 9/29/2023 11:26 AM Beavertail_Bo_FL-1 Compliance Plan_SFN61008_Print.pdf Attachment Joshua Hills 9/29/2023 11:24 AM Beavertail_86_C-6_Compliance Plan_SFN61008_Print.pdf Attachment Joshua Hills 9/29/2023 11:24 AM Beavertail_86_C-1_Compliance Plan_SFN61008_Print.pdf Attachment Joshua Hills 9/29/2023 11:24 AM Beavertail_86_C-1_Compliance Plan_SFN61008_Print.pdf Attachment	Date	Attachment Name	Context	User
10/19/2023 10:07 AM Beavertail_4_TK-9_SFN61006_Print.pdf Attachment Joshua Hills 9/29/2023 11:39 AM SFN52858_signed.pdf Attachment Joshua Hills 9/29/2023 11:26 AM 2021-06_Beavertail_PloTPC.vt.tr.pdf Attachment Joshua Hills 9/29/2023 11:26 AM 2021-06_Beavertail_PTD_cydf Attachment Joshua Hills 9/29/2023 11:26 AM Beavertail_DTO_cydf Attachment Joshua Hills 9/29/2023 11:26 AM Beavertail_TOC.pdf Attachment Joshua Hills 9/29/2023 11:24 AM Beavertail_8_C-6_Compliance Plan_SFN61008_Print.pdf Attachment Joshua Hills 9/29/2023 11:24 AM Beavertail_8a_C-3_Compliance Plan_SFN61008_Print.pdf Attachment Joshua Hills 9/29/2023 11:24 AM Beavertail_8a_C-2_Compliance Plan_SFN61008_Print.pdf Attachment Joshua Hills 9/29/2023 11:24 AM Beavertail_8a_C-4_Compliance Plan_SFN61008_Print.pdf Attachment Joshua Hills 9/29/2023 11:24 AM Beavertail_8a_C-4_Compliance Plan_SFN61008_Print.pdf Attachment Joshua Hills 9/29/2023 11:24 AM Beavertail_8a_C-4_Compliance Plan_SFN61008_Print.pdf Attachment Joshua Hills 9/29/2023 11:24 AM Beavertail_6a_C-8_Compliance Plan_SFN61	10/19/2023 10:09 AM	Beavertail_4_TK-7_SFN61006_Print.pdf	Attachment	Joshua Hills
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9/29/2023 10:49 AM	Beavertail_2_C-5_SFN61006_Print.pdf	Attachment	Joshua Hills
9/29/2023 10:49 AM	Beavertail_2_C-4_SFN61006_Print.pdf	Attachment	Joshua Hills
9/29/2023 10:43 AM	Beavertail_2_C-1_SFN61006_Print.pdf	Attachment	Joshua Hills

Status History

	User	Processing Status
11/2/2023 3:51:51 PM	Joshua Hills	Draft
11/2/2023 3:56:31 PM	Kale Hanner	Submitting
11/2/2023 3:56:31 PM	Kale Hanner	Signing
11/2/2023 3:57:52 PM	Kale Hanner	Submitted
11/2/2023 3:58:02 PM	Kale Hanner	In Process
11/3/2023 7:40:22 AM	Kale Hanner	On Hold
11/6/2023 4:05:02 PM	Kale Hanner	In Process

Audit

Event	Event Description	Event By	Event Date
Submission Locked	Submission Locked	Schneider, Kyla K.	10/13/2023 3:33 PM
Submission Unlocked	Submission Unlocked	Schneider, Kyla K.	10/13/2023 3:49 PM
Submission Locked	Submission Locked	Schneider, Kyla K.	10/19/2023 9:37 AM
Submission Unlocked	Submission Unlocked	Schneider, Kyla K.	10/19/2023 9:57 AM
Submission Locked	Submission Locked	Schneider, Kyla K.	10/19/2023 10:02 AM
Submission Unlocked	Submission Unlocked	Schneider, Kyla K.	10/19/2023 10:02 AM
Submission Locked	Submission Locked	Schneider, Kyla K.	10/30/2023 8:06 AM
Submission Unlocked	Submission Unlocked	Schneider, Kyla K.	10/30/2023 8:09 AM
Submission Locked	Submission Locked	Schneider, Kyla K.	10/31/2023 2:31 PM
Submission Unlocked	Submission Unlocked	Schneider, Kyla K.	10/31/2023 2:32 PM
Submission Locked	Submission Locked	Schneider, Kyla K.	10/31/2023 2:43 PM
Submission Unlocked	Submission Unlocked	Schneider, Kyla K.	10/31/2023 2:43 PM
Submission Locked	Submission Locked	Schneider, Kyla K.	11/2/2023 3:10 PM
Submission Unlocked	Submission Unlocked	Schneider, Kyla K.	11/2/2023 3:39 PM
Submission Locked	Submission Locked	Schneider, Kyla K.	11/3/2023 7:37 AM
Submission Unlocked	Submission Unlocked	Schneider, Kyla K.	11/3/2023 7:40 AM

Revisions

Revision	Revision Date	Revision By
Revision 1	9/22/2023 9:48 AM	Joshua Hills
Revision 2	10/16/2023 1:03 PM	Joshua Hills
Revision 3	10/19/2023 10:05 AM	Joshua Hills
Revision 4	11/2/2023 3:51 PM	Joshua Hills

SUBMISSION AGREEMENTS

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

I certify under penalty of lawthat 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 NDAC 33.1-15-14-06.1.e. The source will any term of a comply with the current applicable requirements with which it is in compliance. The source will meet, on a timely basis, any applicable requirement, which becomes effective during the permit term. The source is properly implementing any required risk management plan in accordance with section 112(r) of the federal clean air act, if appropriate.

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

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

Signed By Kale Hanner on 11/02/2023 at 3:56 PM



SUBMITTED ELECTRONICALLY VIA CERIS

September 25, 2023

Mr. Jim Semerad North Dakota Department of Environmental Quality Division of Air Quality 4201 Normandy Street, 2nd Floor Bismarck, ND 58501-1947

ONEOK ROCKIES MIDSTREAM, L.L.C. BEAVERTAIL COMPRESSOR STATION TITLE V PERMIT TO OPERATE

Dear Mr. Semerad,

ONEOK Rockies Midstream, L.L.C. (ORM) operates the Beavertail Compressor Station in McKenzie County, North Dakota pursuant to Permit No. PTC18044 and ACP-018131. ORM submits this application for a Title V Permit to Operate to reflect the additional equipment and updated emission levels at the existing engines from ACP-018131 and to incorporate the construction activities in PTC18044.

If you need additional information or have any questions, please call me at 918-732-1477 or Kale.Hanner@oneok.com.

Sincerely,

Kale Hanner Supervisor – Environmental Compliance

xc: V. Danzeisen/J. Chrobak/C. Northrop/R. Brown (.pdf) Tulsa Environmental Files – Beavertail Compressor Station – Permit Actions

Title V Permit to Operate Application

Beavertail Compressor Station

ONEOK Rockies Midstream, L.L.C.



Submitted to NDDEQ Air Quality Division September 2023

Introduction

ONEOK Rockies Midstream, L.L.C. (ORM) owns and operates the Beavertail Compressor Station, a facility in McKenzie County. ORM submits this application for a Title V Permit to Operate to reflect the additional equipment and updated emission levels at the existing engines from ACP-018131 and to incorporate the construction activities in PTC18044.

Facility Equipment

Beavertail Compressor Station consists of six (6) 2,370-hp Caterpillar G3608LE compressor engines, two (2) 840-hp Waukesha F3524GSI compressor engines, ten (10) 400-bbl condensate tanks, two (2) 400-bbl produced water tanks, one (1) LACT divert tank, one (1) 400-bbl methanol tank, and one (1) process flare for controlling emergency and process relief venting from all equipment. Associated emission sources include condensate truck loading, fugitive emissions and miscellaneous vents and blowdowns. A vapor recovery unit (VRU) controls emissions from the condensate tanks and LACT divert tank.

Process Description

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

Regulatory Applicability

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

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

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

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

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

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

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

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

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

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

State Requirements

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 percent for more than one six-minute period per hour (33.1-15-03-02).

33.1-15-05 Emissions of Particulate Matter Restricted

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

33.1-15-06 Emissions of Sulfur Compounds Restricted

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

33.1-15-07 Control of Organic Compounds Emissions

Storage tanks at the facility will be equipped with submerged fill pipes (33.1-15-07-01.2). Any loading of volatile organic compounds will not exceed 20,000 gallons per day (33.1-15-07-01.4). With the exception of emergency vapor blowdowns or safety relief valves, emissions of organic compounds will be routed to flare or an equally effective control device (33.1-15-07-02.1). Any flares located at the facility will be equipped with an automatic igniter or a continuous burning pilot (33.1-15-07-02.3). The storage tanks at the facility will be controlled and therefore meets the requirements of the May 27, 2015 NDDH guidance memorandum for storage vessels at oil and gas non-production facilities.

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

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

33.1-15-11 Prevention of Air Pollution Emergency Episodes

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

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

33.1-15-13 Emission Standards for Hazardous Air Pollutants

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

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

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

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

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

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

33.1-15-16 Restriction of Odorous Air Contaminants

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

33.1-15-17 Restriction of Fugitive Emissions

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

33.1-15-18 Stack Heights

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

33.1-15-19 Visibility Protection

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

33.1-15-21 Acid Rain Program

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

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

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

33.1-15-25 Regional Haze Requirements

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

NDDEQ Application Forms

Form SFN52858 – Permit Application for Title V Permit to Operate

Form SFN61006 – Emission Unit for Title V Permit to Operate

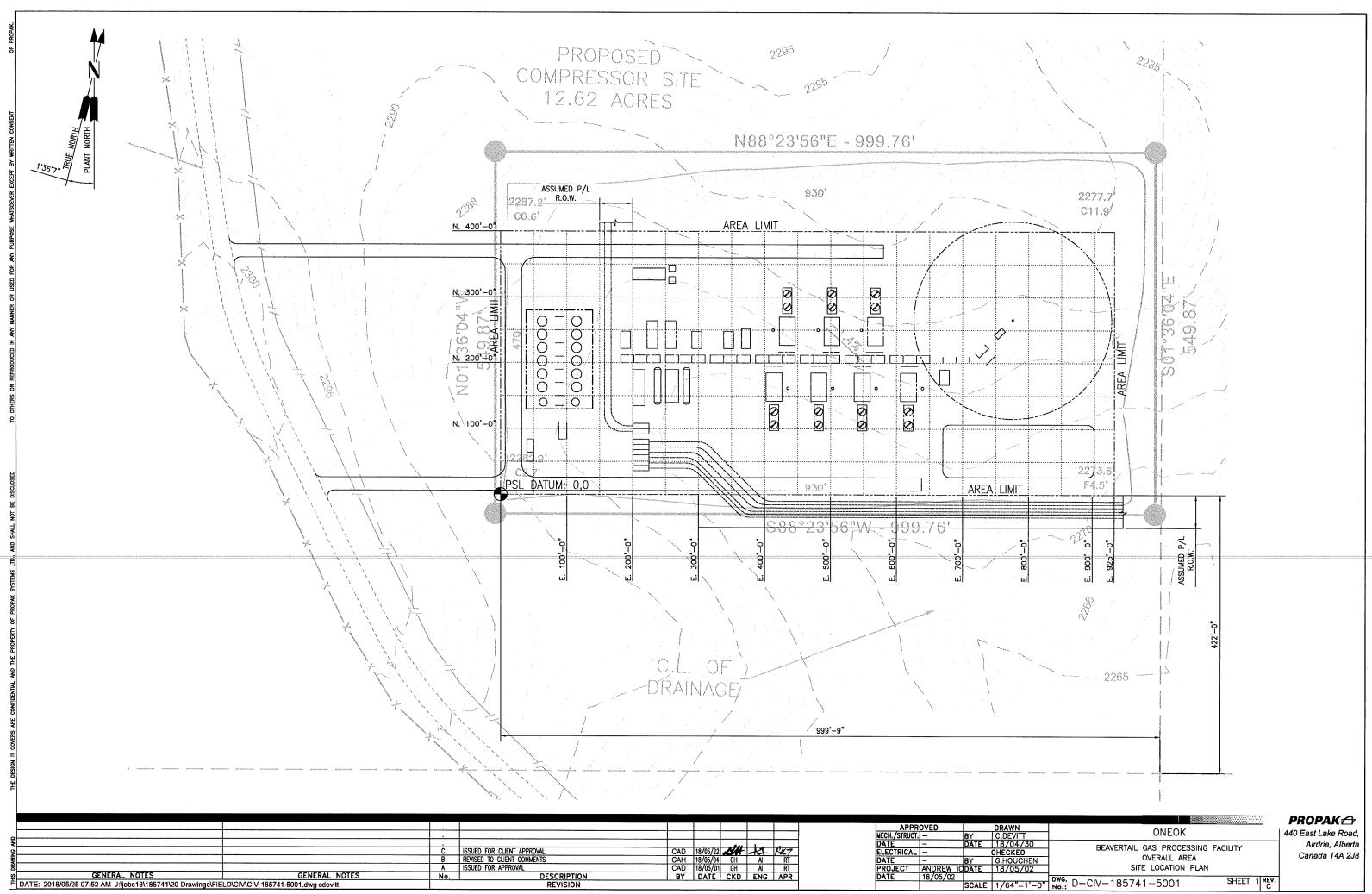
Form SFN61008 – Compliance Schedule and Plan for Title V Permit to Operate

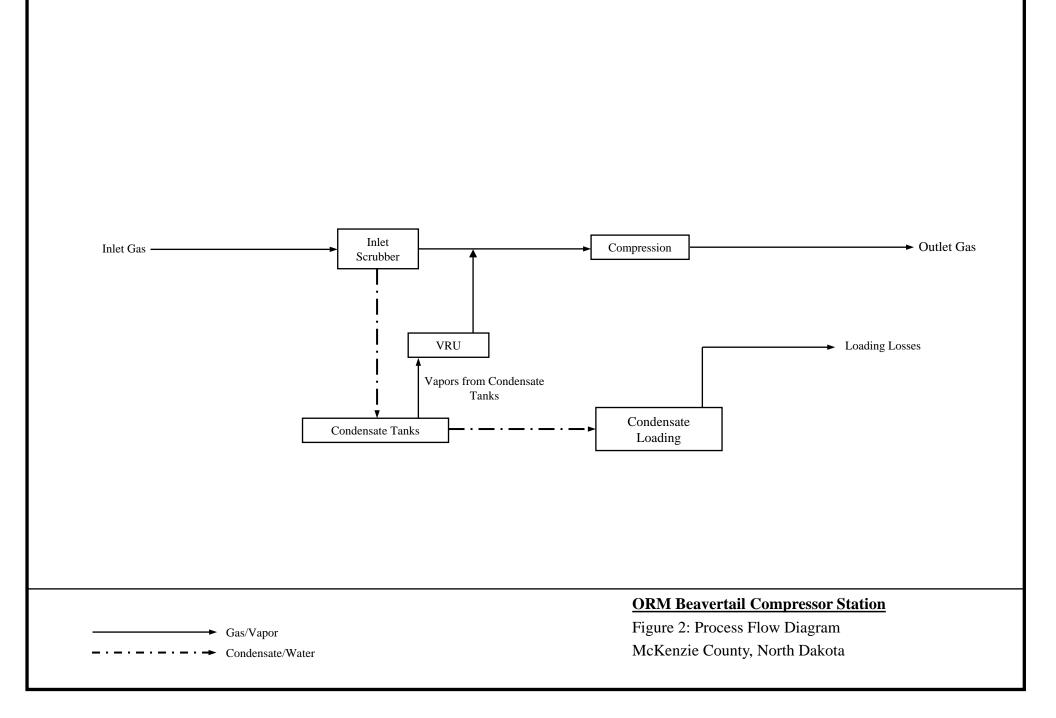
Appendix A - Maps and Drawings

Figure 1 – Plot Plan

Figure 2 – Process Flow Diagram

Appendix B – Emissions Calculations







Air Emissions Calculations prepared for ONEOK Rockies Midstream, L.L.C. Beavertail Compressor Station

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. Beavertail Compressor Station Facility Emissions Summary - Annual

Unit ID	Description	NOx	со	voc	SO ₂	РМ	нсно	HAP	CO ₂ e
		TPY	TPY	TPY	TPY	TPY	TPY	TPY	TPY
C-1	2,370-hp Caterpillar G3608 LE Engine (Edit)	16.02	11.44	16.02	0.04	0.68	1.19	1.47	10,155.38
C-2	2,370-hp Caterpillar G3608 LE Engine (Edit)	16.02	11.44	16.02	0.04	0.68	1.19	1.47	10,155.38
C-3	2,370-hp Caterpillar G3608 LE Engine (Edit)	16.02	11.44	16.02	0.04	0.68	1.19	1.47	10,155.38
C-4	2,370-hp Caterpillar G3608 LE Engine (Edit)	16.02	11.44	16.02	0.04	0.68	1.19	1.47	10,155.38
C-5	2,370-hp Caterpillar G3608 LE Engine (Edit)	16.02	11.44	16.02	0.04	0.68	1.19	1.47	10,155.38
C-6	2,370-hp Caterpillar G3608 LE Engine (Add)	16.02	11.44	16.02	0.04	0.68	1.19	1.47	10,155.38
C-8	840-hp Waukesha F3524GSI Engine (Add)	8.11	10.14	5.68	0.02	0.60	0.21	0.28	3,600.18
C-9	840-hp Waukesha F3524GSI Engine (Add)	8.11	10.14	5.68	0.02	0.60	0.21	0.28	3,600.18
FL-1	Emergency Flare	0.58	0.67	0.27	<0.01	0.04	<0.01	0.01	726.24
TK-1	400-bbl Condensate Tank			2.94				0.12	5.33
TK-2	400-bbl Condensate Tank			2.94				0.12	5.33
TK-3	400-bbl Condensate Tank			2.94				0.12	5.33
TK-4	400-bbl Condensate Tank			2.94				0.12	5.33
TK-5	400-bbl Condensate Tank			2.94				0.12	5.33
TK-6	400-bbl Condensate Tank			2.94				0.12	5.33
TK-7	400-bbl Condensate Tank			2.94				0.12	5.33
TK-8	400-bbl Condensate Tank			2.94				0.12	5.33
TK-9	400-bbl Condensate Tank			2.94				0.12	5.33
TK-10	400-bbl Condensate Tank			2.94				0.12	5.33
WTK-1	400-bbl Produced Water Tank			0.81				0.03	1.45
WTK-2	400-bbl Produced Water Tank			0.81				0.03	1.45
LTK-1	400-bbl LACT Divert Tank			0.24				0.01	0.00
TL-1	Condensate Truck Loading			20.00				0.84	0.06
MTK-1	400-bbl Methanol Tank			0.34				0.34	
FUG	Fugitive Emissions			11.02				1.22	210.26
BD	Miscellaneous Venting and Blowdowns to Atmosphere			5.06				0.10	158.04
	Total =	112.92	89.60	175.41	0.28	5.35	7.56	13.21	69,283.48

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. Beavertail Compressor Station Facility Emissions Summary - Hourly

Unit ID	Description	NOx	со	voc	SO ₂	РМ	нсно	HAP	CO ₂ e
		lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
C-1	2,370-hp Caterpillar G3608 LE Engine (Edit)	3.66	2.61	3.66	0.01	0.16	0.27	0.34	2,318.58
C-2	2,370-hp Caterpillar G3608 LE Engine (Edit)	3.66	2.61	3.66	0.01	0.16	0.27	0.34	2,318.58
C-3	2,370-hp Caterpillar G3608 LE Engine (Edit)	3.66	2.61	3.66	0.01	0.16	0.27	0.34	2,318.58
C-4	2,370-hp Caterpillar G3608 LE Engine (Edit)	3.66	2.61	3.66	0.01	0.16	0.27	0.34	2,318.58
C-5	2,370-hp Caterpillar G3608 LE Engine (Edit)	3.66	2.61	3.66	0.01	0.16	0.27	0.34	2,318.58
C-6	2,370-hp Caterpillar G3608 LE Engine (Add)	3.66	2.61	3.66	0.01	0.16	0.27	0.34	2,318.58
C-8	840-hp Waukesha F3524GSI Engine (Add)	1.85	2.31	1.30	<0.01	0.14	0.05	0.06	821.96
C-9	840-hp Waukesha F3524GSI Engine (Add)	1.85	2.31	1.30	<0.01	0.14	0.05	0.06	821.96
FL-1	Emergency Flare	0.29	0.86	0.82	<0.01	0.01	<0.01	0.02	460.08
TK-1	400-bbl Condensate Tank			0.67				0.03	1.22
TK-2	400-bbl Condensate Tank			0.67				0.03	1.22
TK-3	400-bbl Condensate Tank			0.67				0.03	1.22
TK-4	400-bbl Condensate Tank			0.67				0.03	1.22
TK-5	400-bbl Condensate Tank			0.67				0.03	1.22
TK-6	400-bbl Condensate Tank			0.67				0.03	1.22
TK-7	400-bbl Condensate Tank			0.67				0.03	1.22
TK-8	400-bbl Condensate Tank			0.67				0.03	1.22
TK-9	400-bbl Condensate Tank			0.67				0.03	1.22
TK-10	400-bbl Condensate Tank			0.67				0.03	1.22
WTK-1	400-bbl Produced Water Tank			0.18				0.01	0.33
WTK-2	400-bbl Produced Water Tank			0.18				0.01	0.33
TL-1	Condensate Truck Loading			4.57				0.19	0.01
MTK-1	400-bbl Methanol Tank			0.08				0.08	
FUG	Fugitive Emissions			2.52				0.28	48.00
BD	Miscellaneous Venting and Blowdowns to Atmosphere				-				
	Total =	25.94	21.17	39.60	0.06	1.22	1.73	3.01	16,076.33

ONEOK Rockies Midstream, L.L.C. Beavertail Compressor Station Facility Analyses

			Stre	am 1	Stream 2				Stream 3					
	Molecular	r Inlet Gas					Condensate				Flash Gas			
Component	Weight	Mole %	Equiv. Wt. Basis	Weight %	HC Weight %	Mole %	Equiv. Wt. Basis	Weight %	HC Weight %	Mole %	Equiv. Wt. Basis	Weight %	HC Weight %	
Hydrogen Sulfide	34.081	0.0000%	0.00	0.00%	-	0.0000%	0.00	0.00%	-	0.0000%	0.00	0.00%	-	
Carbon Dioxide	44.010	0.8424%	0.37	1.50%	-	0.0070%	0.00	0.00%	-	0.4160%	0.18	0.42%	-	
Nitrogen	28.013	1.6861%	0.47	1.91%	-	0.0005%	0.00	0.00%	-	0.3742%	0.10	0.24%	-	
Helium	4.003	0.0000%	0.00	0.00%	-	0.0000%	0.00	0.00%	-	0.0000%	0.00	0.00%	-	
Oxygen	31.999	0.0000%	0.00	0.00%	-	0.0000%	0.00	0.00%	-	0.0000%	0.00	0.00%	-	
Methane	16.043	63.7967%	10.23	41.30%	42.76%	0.0892%	0.01	0.02%	0.02%	16.3120%	2.62	6.06%	6.10%	
Ethane	30.069	18.2815%	5.50	22.18%	22.97%	1.0024%	0.30	0.36%	0.36%	24.3710%	7.33	16.96%	17.08%	
Propane	44.096	8.7139%	3.84	15.51%	16.05%	3.9429%	1.74	2.09%	2.09%	24.5100%	10.81	25.02%	25.19%	
i-Butane	58.122	1.1296%	0.66	2.65%	2.74%	2.1446%	1.25	1.50%	1.50%	4.6733%	2.72	6.29%	6.33%	
n-Butane	58.122	3.1436%	1.83	7.37%	7.63%	11.2900%	6.56	7.87%	7.88%	15.4880%	9.00	20.84%	20.98%	
i-Pentane	72.149	0.6622%	0.48	1.93%	2.00%	8.9459%	6.45	7.75%	7.75%	4.6371%	3.35	7.74%	7.80%	
n-Pentane	72.149	0.9649%	0.70	2.81%	2.91%	17.9170%	12.93	15.51%	15.51%	6.6093%	4.77	11.04%	11.11%	
n-Hexane	86.175	0.1473%	0.13	0.51%	0.53%	21.0830%	18.17	21.80%	21.80%	1.9609%	1.69	3.91%	3.94%	
Other Hexanes	86.175	0.4096%	0.35	1.42%	1.47%	0.0000%	0.00	0.00%	0.00%	0.0000%	0.00	0.00%	0.00%	
Heptanes	100.202	0.0772%	0.08	0.31%	0.32%	17.6410%	17.68	21.21%	21.21%	0.4483%	0.45	1.04%	1.05%	
Benzene	78.114	0.0158%	0.01	0.05%	0.05%	1.0238%	0.80	0.96%	0.96%	0.0985%	0.08	0.18%	0.18%	
Toluene	92.141	0.0122%	0.01	0.05%	0.05%	1.1045%	1.02	1.22%	1.22%	0.0273%	0.03	0.06%	0.06%	
Ethylbenzene	106.167	0.0008%	0.00	0.00%	0.00%	0.1192%	0.13	0.15%	0.15%	0.0008%	0.00	0.00%	0.00%	
Xylenes	106.167	0.0035%	0.00	0.02%	0.02%	0.7551%	0.80	0.96%	0.96%	0.0042%	0.00	0.01%	0.01%	
Octanes	114.229	0.0956%	0.11	0.44%	0.46%	9.2477%	10.56	12.68%	12.68%	0.0637%	0.07	0.17%	0.17%	
2,2,4-Trimethylpentane	114.231	0.0079%	0.01	0.04%	0.04%	0.0000%	0.00	0.00%	0.00%	0.0000%	0.00	0.00%	0.00%	
Nonanes	128.255	0.0000%	0.00	0.00%	0.00%	2.2625%	2.90	3.48%	3.48%	0.0041%	0.01	0.01%	0.01%	
Decanes	142.282	0.0000%	0.00	0.00%	0.00%	1.4236%	2.03	2.43%	2.43%	0.0012%	0.00	0.00%	0.00%	
	Totals =	99.9908%	24.78	100.00%	100.00%	100.0000%	83.33	100.00%	100.00%	100.0000%	43.20	100.00%	100.00%	
		Total HC =	23.94	Total VOC =	34.27%	Total HC =	83.33	Total VOC =	99.62%	Total HC =	42.91	Total VOC =	76.82%	
				Total HAP =	0.69%			Total HAP =	25.10%			Total HAP =	4.19%	

Notes:

1) Representative inlet gas analysis with C6+ estimated per GLYCalc. Condensate and flash gas compositions calculated with ProMax process simulation using representative analysis. (Banks CS, located 16.8 miles away)

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

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

C6+ Value From Gas Analysis =

ysis =

0.77

mole %

ONEOK Rockies Midstream, L.L.C. Beavertail Compressor Station Engine Information and Manufacturer Emission Factors

	C-1	C-2	quipment Informati C-3	C-4	C-5	C-6	C-8	C-9
Make	Caterpillar	Caterpillar	Caterpillar	Caterpillar	Caterpillar	Caterpillar	Waukesha	Waukesha
Model	G3608 LE	G3608 LE	G3608 LE	G3608 LE	G3608 LE	G3608 LE	F3524GSI	F3524GSI
Design Rating (hp)	2,370	2,370	2,370	2,370	2,370	2,370	840	840
Fuel Consumption (Btu/hp-hr)	6,600	6.600	6,600	6,600	6,600	6,600	8.403	8,403
Fuel Consumption (scfh)	15,246	15.246	15.246	15,246	15.246	15,246	6.880	6.880
Fuel Consumption (mmBtu/hr)	15.64	15.64	15.64	15.64	15.64	15.64	7.06	7.06
Fuel Consumption (scf/yr)	133,551,579	133,551,579	133,551,579	133,551,579	133,551,579	133,551,579	60,265,726	60,265,726
Fuel Heating Value (Btu/scf)	1.026	1.026	1.026	1.026	1.026	1.026	1.026	1.026
Design Class	4S-LB	4S-LB	4S-LB	4S-LB	4S-LB	4S-LB	4S-RB	4S-RB
Controls	Oxidation Catalyst	Oxidation Catalyst	Oxidation Catalyst	Oxidation Catalyst	Oxidation Catalyst	Oxidation Catalyst	Oxidation Catalyst	Oxidation Cata
Operating Hours	8,760	8,760	8,760	8,760	8,760	8,760	8,760	8,760
Stack Height (ft)	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
Stack Diameter (ft)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Exhaust Temperature (°F)	878	878	878	878	878	878	878	878
Exhaust Flow (acfm)	15,955	15,955	15,955	15,955	15,955	15,955	15,955	15,955
Exhaust Flow (scfh)	377,769	377,769	377,769	377,769	377,769	377,769	377,769	377,769
Exit Velocity (ft/s)	104.50	104.50	104.50	104.50	104.50	104.50	104.50	104.50
NOx (g/hp-hr)	0.70	0.70	0.70	0.70	0.70	0.70	1.00	1.00
		Uncor	ntrolled Emission F	actors				
	2.50	2.50	2.50	2.50	2.50	2.50	12.50	12.50
CO (g/hp-hr) VOC (g/hp-hr)	2.50	2.50	2.50	2.50	2.50	2.50	0.70	12.50
Formaldehyde (g/hp-hr)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
CO ₂ (g/hp-hr)	439.00	439.00	439.00	439.00	439.00	439.00	439.00	439.00
CO ₂ (g/np-nr)	439.00	439.00	439.00	439.00	439.00	439.00	439.00	439.00
	<u> </u>		Control Efficiency	<u> </u>				
	C-1	C-2	C-3	C-4	C-5	C-6	C-8	C-9
NOx	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
CO VOC	80.00% 0.00%	80.00% 0.00%	80.00% 0.00%	80.00% 0.00%	80.00% 0.00%	80.00% 0.00%	90.00% 0.00%	90.00% 0.00%
Formaldehyde	80.00%	80.00%	80.00%	80.00%	80.00%	80.00%	90.00%	90.00%
		Deet	Control Emission F					
	C-1		Control Emission P C-3	C-4	C-5	C-6	C-8	
NOx (g/hp-hr)	0.70	C-2 0.70	0.70	0.70	0.70	0.70	1.00	C-9 1.00
CO (g/hp-hr)	0.50	0.50	0.50	0.70	0.50	0.50	1.00	1.00
VOC (g/hp-hr)	0.50	0.50	0.50	0.50	0.50	0.50	0.70	0.70
vuu (g/np-nr)								
Formaldobydo (g/bp br)								
Formaldehyde (g/hp-hr) CO ₂ (g/hp-hr)	0.05 443.39	0.05 443.39	0.05 443.39	0.05 443.39	0.05 443.39	0.05 443.39	0.03 443.39	0.03 443.39

Notes: 1) NOx and VOC emission factors based of NSPS JJJJ limits. 2) CO and Formaldehyde emission factors based of manufacture's specifications.

ONEOK Rockies Midstream, L.L.C. Beavertail Compressor Station Engine AP-42/EPA Emission Factors

Emission Factors		
	4S-LB	4S-RB
SO ₂ (lb/mmBtu)	5.88E-04	5.88E-04
PM _{10/2.5} (lb/mmBtu)	7.71E-05	9.50E-03
PM _{COND} (lb/mmBtu)	9.91E-03	9.91E-03
РМ _{тот} (lb/mmBtu)	9.99E-03	1.94E-02
Acetaldehyde (lb/mmBtu)	8.36E-03	2.79E-03
Acrolein (lb/mmBtu)	5.14E-03	2.63E-03
Benzene (lb/mmBtu)	4.40E-04	1.58E-03
Ethylbenzene (lb/mmBtu)	3.97E-05	2.48E-05
Methanol (Ib/mmBtu)	2.50E-03	3.06E-03
n-Hexane (lb/mmBtu)	1.11E-03	NA
Toluene (lb/mmBtu)	4.08E-04	5.58E-04
Xylenes (lb/mmBtu)	1.84E-04	1.95E-04
Other HAP (lb/mmBtu)	2.32E-03	1.08E-03
Carbon Dioxide (CO ₂) (kg/mmBtu)	5.31E+01	5.31E+01
Methane (CH₄) (kg/mmBtu)	1.00E-03	1.00E-03
Nitrous Oxide (N ₂ O) (kg/mmBtu)	1.00E-04	1.00E-04
Post-Control Emission F		
	4S-LB	4S-RB
Acetaldehyde (lb/mmBtu)	1.67E-03	5.58E-04
Acrolein (lb/mmBtu)	1.03E-03	5.26E-04
Benzene (Ib/mmBtu)	8.80E-05	3.16E-04
Ethylbenzene (lb/mmBtu)	7.94E-06	4.96E-06
Methanol (Ib/mmBtu)	5.00E-04	6.12E-04
n-Hexane (Ib/mmBtu)	2.22E-04	0.00E+00
Toluene (Ib/mmBtu)	8.16E-05	1.12E-04
Xylenes (Ib/mmBtu)	3.68E-05	3.90E-05
Other HAP (Ib/mmBtu) Notes:	4.65E-04	2.16E-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.

Pollutant	Emissio	n Factor		Cap	oacity		Convers	sion		Hourly En	nissions	Ор	erating Hou	ırs	Conve	ersion		Annual Em	nissions
NOx	7.00E-01	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	3.66	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	16.02	TPY
co	5.00E-01	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	2.61	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	11.44	TPY
VOC	7.00E-01	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	3.66	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	16.02	TPY
SO ₂	5.88E-04	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.04	TPY
PM _{10/2.5}	7.71E-05	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.01	TPY
PM _{COND}	9.91E-03	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.16	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.68	TPY
PM _{TOT}	9.99E-03	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.16	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.68	TPY
Acetaldehyde	1.67E-03	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.03	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.11	TPY
Acrolein	1.03E-03	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.02	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.07	TPY
Benzene	8.80E-05	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.01	TPY
Ethylbenzene	7.94E-06	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	<0.01	TPY
Formaldehyde	5.20E-02	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	0.27	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	1.19	TPY
Methanol	5.00E-04	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.03	TPY
n-Hexane	2.22E-04	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.02	TPY
Toluene	8.16E-05	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.01	TPY
Xylenes	3.68E-05	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	<0.01	TPY
Other HAP	4.65E-04	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.03	TPY
CO ₂	4.43E+02	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	2,316.69	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	10,147.10	TPY
CH₄	1.00E-03	kg/mmBtu	Х	15.64	mmBtu/hr	Х	2.20462	lb/kg	=	0.03	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.15	TPY
N₂O	1.00E-04	kg/mmBtu	Х	15.64	mmBtu/hr	Х	2.20462	lb/kg	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.02	TPY

Pollutant	Emissio	n Factor		Caj	oacity		Convers	sion		Hourly Er	nissions	Ор	erating Hou	urs	Conve	ersion		Annual Em	nissions
NOx	7.00E-01	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	3.66	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	16.02	TPY
co	5.00E-01	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	2.61	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	11.44	TPY
VOC	7.00E-01	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	3.66	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	16.02	TPY
SO ₂	5.88E-04	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.04	TPY
PM _{10/2.5}	7.71E-05	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.01	TPY
PM _{COND}	9.91E-03	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.16	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.68	TPY
PM _{TOT}	9.99E-03	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.16	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.68	TPY
Acetaldehyde	1.67E-03	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.03	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.11	TPY
Acrolein	1.03E-03	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.02	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.07	TPY
Benzene	8.80E-05	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.01	TPY
Ethylbenzene	7.94E-06	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	<0.01	TPY
Formaldehyde	5.20E-02	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	0.27	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	1.19	TPY
Methanol	5.00E-04	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.03	TPY
n-Hexane	2.22E-04	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.02	TPY
Toluene	8.16E-05	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.01	TPY
Xylenes	3.68E-05	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	<0.01	TPY
Other HAP	4.65E-04	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.03	TPY
CO ₂	4.43E+02	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	2,316.69	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	10,147.10	TPY
CH₄	1.00E-03	kg/mmBtu	Х	15.64	mmBtu/hr	Х	2.20462	lb/kg	=	0.03	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.15	TPY
N ₂ O	1.00E-04	kg/mmBtu	Х	15.64	mmBtu/hr	Х	2.20462	lb/kg	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.02	TPY

Pollutant	Emissio	n Factor		Cap	oacity		Convers	sion		Hourly Er	nissions	Ор	erating Hou	irs	Conve	ersion		Annual Em	nissions
NOx	7.00E-01	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	3.66	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	16.02	TPY
co	5.00E-01	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	2.61	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	11.44	TPY
VOC	7.00E-01	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	3.66	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	16.02	TPY
SO ₂	5.88E-04	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.04	TPY
PM _{10/2.5}	7.71E-05	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.01	TPY
PM _{COND}	9.91E-03	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.16	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.68	TPY
ΡΜ _{τοτ}	9.99E-03	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.16	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.68	TPY
Acetaldehyde	1.67E-03	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.03	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.11	TPY
Acrolein	1.03E-03	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.02	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.07	TPY
Benzene	8.80E-05	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.01	TPY
Ethylbenzene	7.94E-06	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	<0.01	TPY
Formaldehyde	5.20E-02	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	0.27	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	1.19	TPY
Methanol	5.00E-04	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.03	TPY
n-Hexane	2.22E-04	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.02	TPY
Toluene	8.16E-05	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.01	TPY
Xylenes	3.68E-05	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	<0.01	TPY
Other HAP	4.65E-04	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.03	TPY
CO ₂	4.43E+02	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	2,316.69	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	10,147.10	TPY
CH₄	1.00E-03	kg/mmBtu	Х	15.64	mmBtu/hr	Х	2.20462	lb/kg	=	0.03	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.15	TPY
N₂O	1.00E-04	kg/mmBtu	Х	15.64	mmBtu/hr	Х	2.20462	lb/kg	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.02	TPY

Pollutant	Emissio	on Factor		Cap	oacity		Convers	sion		Hourly En	nissions	Ор	erating Hou	irs	Conve	ersion		Annual Em	nissions
NOx	7.00E-01	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	3.66	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	16.02	TPY
со	5.00E-01	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	2.61	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	11.44	TPY
voc	7.00E-01	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	3.66	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	16.02	TPY
SO ₂	5.88E-04	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.04	TPY
PM _{10/2.5}	7.71E-05	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.01	TPY
PM _{COND}	9.91E-03	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.16	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.68	TPY
ΡΜ _{τοτ}	9.99E-03	lb/mmBtu	х	15.64	mmBtu/hr	Х	-	-	=	0.16	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.68	TPY
Acetaldehyde	1.67E-03	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.03	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.11	TPY
Acrolein	1.03E-03	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.02	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.07	TPY
Benzene	8.80E-05	lb/mmBtu	х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.01	TPY
Ethylbenzene	7.94E-06	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	<0.01	TPY
Formaldehyde	5.20E-02	g/hp-hr	х	2,370	hp	Х	0.00220462	lb/gr	=	0.27	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	1.19	TPY
Methanol	5.00E-04	lb/mmBtu	х	15.64	mmBtu/hr	Х	-	-	=	0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.03	TPY
n-Hexane	2.22E-04	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	х	8,760	Х	0.0005	ton/lb	=	0.02	TPY
Toluene	8.16E-05	lb/mmBtu	х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.01	TPY
Xylenes	3.68E-05	lb/mmBtu	х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	<0.01	TPY
Other HAP	4.65E-04	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.03	TPY
CO ₂	4.43E+02	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	2,316.69	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	10,147.10	TPY
CH₄	1.00E-03	kg/mmBtu	Х	15.64	mmBtu/hr	Х	2.20462	lb/kg	=	0.03	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.15	TPY
N ₂ O	1.00E-04	kg/mmBtu	Х	15.64	mmBtu/hr	Х	2.20462	lb/kg	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.02	TPY

Pollutant	Emissio	on Factor		Cap	acity		Convers	sion		Hourly Er	nissions	Ор	erating Hou	ırs	Conve	ersion		Annual Em	nissions
NOx	7.00E-01	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	3.66	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	16.02	TPY
co	5.00E-01	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	2.61	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	11.44	TPY
VOC	7.00E-01	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	3.66	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	16.02	TPY
SO ₂	5.88E-04	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.04	TPY
PM _{10/2.5}	7.71E-05	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.01	TPY
PM _{COND}	9.91E-03	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.16	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.68	TPY
PM _{TOT}	9.99E-03	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.16	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.68	TPY
Acetaldehyde	1.67E-03	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.03	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.11	TPY
Acrolein	1.03E-03	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.02	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.07	TPY
Benzene	8.80E-05	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.01	TPY
Ethylbenzene	7.94E-06	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	<0.01	TPY
Formaldehyde	5.20E-02	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	0.27	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	1.19	TPY
Methanol	5.00E-04	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.03	TPY
n-Hexane	2.22E-04	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.02	TPY
Toluene	8.16E-05	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.01	TPY
Xylenes	3.68E-05	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	<0.01	TPY
Other HAP	4.65E-04	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.03	TPY
CO ₂	4.43E+02	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	2,316.69	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	10,147.10	TPY
CH₄	1.00E-03	kg/mmBtu	Х	15.64	mmBtu/hr	Х	2.20462	lb/kg	=	0.03	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.15	TPY
N ₂ O	1.00E-04	kg/mmBtu	Х	15.64	mmBtu/hr	Х	2.20462	lb/kg	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.02	TPY

Pollutant	Emissio	on Factor		Cap	acity		Convers	sion		Hourly Er	nissions	Ор	erating Hou	irs	Conve	ersion		Annual Em	nissions
NOx	7.00E-01	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	3.66	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	16.02	TPY
co	5.00E-01	g/hp-hr	х	2,370	hp	Х	0.00220462	lb/gr	=	2.61	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	11.44	TPY
VOC	7.00E-01	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	3.66	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	16.02	TPY
SO ₂	5.88E-04	lb/mmBtu	х	15.64	mmBtu/hr	Х	-	-	=	0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.04	TPY
PM _{10/2.5}	7.71E-05	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.01	TPY
PM _{COND}	9.91E-03	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.16	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.68	TPY
PM _{TOT}	9.99E-03	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.16	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.68	TPY
Acetaldehyde	1.67E-03	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.03	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.11	TPY
Acrolein	1.03E-03	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.02	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.07	TPY
Benzene	8.80E-05	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.01	TPY
Ethylbenzene	7.94E-06	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	<0.01	TPY
Formaldehyde	5.20E-02	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	0.27	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	1.19	TPY
Methanol	5.00E-04	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.03	TPY
n-Hexane	2.22E-04	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.02	TPY
Toluene	8.16E-05	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.01	TPY
Xylenes	3.68E-05	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	<0.01	TPY
Other HAP	4.65E-04	lb/mmBtu	Х	15.64	mmBtu/hr	Х	-	-	=	0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.03	TPY
CO ₂	4.43E+02	g/hp-hr	Х	2,370	hp	Х	0.00220462	lb/gr	=	2,316.69	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	10,147.10	TPY
CH₄	1.00E-03	kg/mmBtu	Х	15.64	mmBtu/hr	Х	2.20462	lb/kg	=	0.03	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.15	TPY
N₂O	1.00E-04	kg/mmBtu	Х	15.64	mmBtu/hr	Х	2.20462	lb/kg	=	<0.01	lb/hr	х	8,760	Х	0.0005	ton/lb	=	0.02	TPY

Pollutant	Emissio	n Factor		Ca	oacity		Conver	sion		Hourly E	missions	Ор	erating Ho	urs	Conve	ersion		Annual En	nissions
NOx	1.00E+00	g/hp-hr	Х	840	hp	Х	0.00220462	lb/gr	=	1.85	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	8.11	TPY
co	1.25E+00	g/hp-hr	Х	840	hp	Х	0.00220462	lb/gr	=	2.31	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	10.14	TPY
VOC	7.00E-01	g/hp-hr	Х	840	hp	Х	0.00220462	lb/gr	=	1.30	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	5.68	TPY
SO ₂	5.88E-04	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.02	TPY
PM _{10/2.5}	9.50E-03	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	0.07	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.29	TPY
PM _{COND}	9.91E-03	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	0.07	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.31	TPY
PM _{TOT}	1.94E-02	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	0.14	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.60	TPY
Acetaldehyde	5.58E-04	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.02	TPY
Acrolein	5.26E-04	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.02	TPY
Benzene	3.16E-04	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.01	TPY
Ethylbenzene	4.96E-06	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	<0.01	TPY
Formaldehyde	2.60E-02	g/hp-hr	Х	840	hp	Х	0.00220462	lb/gr	=	0.05	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.21	TPY
Methanol	6.12E-04	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.02	TPY
n-Hexane	0.00E+00	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	0.00	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.00	TPY
Toluene	1.12E-04	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	<0.01	TPY
Xylenes	3.90E-05	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	<0.01	TPY
Other HAP	2.16E-04	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.01	TPY
CO ₂	4.43E+02	g/hp-hr	Х	840	hp	Х	0.00220462	lb/gr	=	821.11	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	3,596.44	TPY
CH4	1.00E-03	kg/mmBtu	Х	7.06	mmBtu/hr	Х	2.20462	lb/kg	=	0.02	lb/hr	х	8,760	Х	0.0005	ton/lb	=	0.07	TPY
N ₂ O	1.00E-04	kg/mmBtu	Х	7.06	mmBtu/hr	Х	2.20462	lb/kg	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.01	TPY

Pollutant	Emissio	n Factor		Caj	pacity		Conver	sion		Hourly E	missions	Ор	erating Ho	urs	Conve	ersion		Annual En	nissions
NOx	1.00E+00	g/hp-hr	Х	840	hp	Х	0.00220462	lb/gr	=	1.85	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	8.11	TPY
со	1.25E+00	g/hp-hr	Х	840	hp	Х	0.00220462	lb/gr	=	2.31	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	10.14	TPY
voc	7.00E-01	g/hp-hr	Х	840	hp	Х	0.00220462	lb/gr	=	1.30	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	5.68	TPY
SO ₂	5.88E-04	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.02	TPY
PM _{10/2.5}	9.50E-03	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	0.07	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.29	TPY
PM _{COND}	9.91E-03	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	0.07	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.31	TPY
PM _{TOT}	1.94E-02	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	0.14	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.60	TPY
Acetaldehyde	5.58E-04	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.02	TPY
Acrolein	5.26E-04	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.02	TPY
Benzene	3.16E-04	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.01	TPY
Ethylbenzene	4.96E-06	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	<0.01	TPY
Formaldehyde	2.60E-02	g/hp-hr	Х	840	hp	Х	0.00220462	lb/gr	=	0.05	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.21	TPY
Methanol	6.12E-04	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.02	TPY
n-Hexane	0.00E+00	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	0.00	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.00	TPY
Toluene	1.12E-04	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	<0.01	TPY
Xylenes	3.90E-05	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	<0.01	TPY
Other HAP	2.16E-04	lb/mmBtu	Х	7.06	mmBtu/hr	Х	-	-	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.01	TPY
CO ₂	4.43E+02	g/hp-hr	Х	840	hp	Х	0.00220462	lb/gr	=	821.11	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	3,596.44	TPY
CH₄	1.00E-03	kg/mmBtu	Х	7.06	mmBtu/hr	Х	2.20462	lb/kg	=	0.02	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.07	TPY
N₂O	1.00E-04	kg/mmBtu	Х	7.06	mmBtu/hr	Х	2.20462	lb/kg	=	<0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.01	TPY

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

Equipment Inform	ation
	FL-1
Description	Emergency Flare
VOC to Flare (lb/hr)	40.91
Stream Heat Content (Btu/scf)	1,302
Stream Net Btu Value (Btu/hr)	2,464,090
Operating Hours	600
Control Efficiency	98%
Pilot Stream Heat Content (Btu/scf)	1,026
Pilot Gas Flow Rate (scfh)	1,200.00
Pilot Gas Capacity (mmBtu/hr)	1.231
Pilot Operating Hours	8,760

	AP-42/EPA Em	ission Factors	
	Flare Stream		Pilot Gas
NOx (lb/mmBtu)	0.068	NOx (lb/mmscf)	100.0
CO (lb/mmBtu)	0.31	CO (lb/mmscf)	84.0
VOC	Mass Balance	VOC (lb/mmscf)	5.5
SO 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
РМ _{тот}		РМ _{тот} (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 (CH₄) (kg/mmBtu)	1.00E-03
Nitrous Oxide (N ₂ O) (kg/mmBtu)	1.00E-04	Nitrous Oxide (N ₂ O) (kg/mmBtu)	1.00E-04

Notes:

1) NOx and CO emission factors (lb/mmBtu), flare stream: AP-42, Table 13.5-1 (12/2016). 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.

Unit ID: FL-1

Total: Stream + Pilot				
Pollutant	Hourly E	missions	Annual Er	missions
NOx	0.29	lb/hr	0.58	TPY
CO	0.86	lb/hr	0.67	TPY
VOC	0.82	lb/hr	0.27	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
Ethylbenzene	<0.01	lb/hr	<0.01	TPY
Xylenes	<0.01	lb/hr	<0.01	TPY
Other HAP	<0.01	lb/hr	<0.01	TPY
CO2	434.11	lb/hr	717.84	TPY
CH₄	1.03	lb/hr	0.32	TPY
N ₂ O	<0.01	lb/hr	<0.01	TPY

Stream Emissions

Pollutant	Emissio	on Factor		Cap	acity		Conve	rsion		Hourly Er	nissions	Op	erating Ho	urs	Conve	ersion		Annual E	missions
NOx	6.80E-02	lb/mmBtu	Х	2.46E+00	mmBtu/hr	Х	-	-	=	0.17	lb/hr	х	600	Х	0.0005	ton/lb	=	0.05	TPY
co	3.10E-01	lb/mmBtu	Х	2.46E+00	mmBtu/hr	Х	-	-	=	0.76	lb/hr	х	600	Х	0.0005	ton/lb	=	0.23	TPY
VOC	-	-	-	-	-	-	-	-	=	0.82	lb/hr	х	600	х	0.0005	ton/lb	=	0.25	TPY
SO ₂	-	-	-	-	-	-	-	-	=	0.00	lb/hr	х	600	х	0.0005	ton/lb	=	0.00	TPY
n-Hexane	-	-	-	-	-	-	-	-	=	0.01	lb/hr	х	600	х	0.0005	ton/lb	=	<0.01	TPY
Benzene	-	-		-		-	-	-	=	<0.01	lb/hr	х	600	х	0.0005	ton/lb	=	<0.01	TPY
Toluene	-	-	-	-	-	-	-	-	=	<0.01	lb/hr	х	600	х	0.0005	ton/lb	=	<0.01	TPY
Ethylbenzene	-	-	-	-	-	-	-	-	=	<0.01	lb/hr	х	600	х	0.0005	ton/lb	=	<0.01	TPY
Xylenes	-	-		-		-	-	-	=	<0.01	lb/hr	х	600	х	0.0005	ton/lb	=	<0.01	TPY
Other HAP	-	-	-	-	-	-	-	-	=	<0.01	lb/hr	х	600	х	0.0005	ton/lb	=	<0.01	TPY
CO ₂	5.31E+01	kg/mmBtu	Х	2.46E+00	mmBtu/hr	Х	2.20462	lb/kg	=	288.24	lb/hr	х	600	Х	0.0005	ton/lb	=	86.47	TPY
CO2	-	-	-	-	-	-	-	-	=	1.85	lb/hr	х	600	х	0.0005	ton/lb	=	0.55	TPY
CH₄	1.00E-03	kg/mmBtu	Х	2.46E+00	mmBtu/hr	Х	2.20462	lb/kg	=	0.01	lb/hr	х	600	х	0.0005	ton/lb	=	<0.01	TPY
CH₄	-	-	-	-	-	-	-	-	=	1.02	lb/hr	х	600	х	0.0005	ton/lb	=	0.31	TPY
N ₂ O	1.00E-04	kg/mmBtu	х	2.46E+00	mmBtu/hr	х	2.20462	lb/kg	=	<0.01	lb/hr	х	600	Х	0.0005	ton/lb	=	<0.01	TPY

Pollutant	Emissio	n Factor		Cap	acity		Conve	rsion		Hourly E	missions	Ор	erating Ho	urs	Conv	ersion		Annual E	missions
NOx	1.00E+02	lb/mmscf	Х	1.20E-03	mmscf/hr	Х	-	-	=	0.12	lb/hr	х	8,760	Х	0.0005	ton/lb	=	0.53	TPY
со	8.40E+01	lb/mmscf	Х	1.20E-03	mmscf/hr	Х	-	-	=	0.10	lb/hr	х	8,760	Х	0.0005	ton/lb	=	0.44	TPY
voc	5.50E+00	lb/mmscf	Х	1.20E-03	mmscf/hr	Х	-	-	=	0.01	lb/hr	х	8,760	Х	0.0005	ton/lb	=	0.03	TPY
SO ₂	6.00E-01	lb/mmscf	Х	1.20E-03	mmscf/hr	Х	-	-	=	<0.01	lb/hr	х	8,760	х	0.0005	ton/lb	=	<0.01	TPY
PM _{10/2.5}	1.90E+00	lb/mmscf	Х	1.20E-03	mmscf/hr	Х	-	-	=	<0.01	lb/hr	х	8,760	х	0.0005	ton/lb	=	0.01	TPY
PM _{COND}	5.70E+00	lb/mmscf	Х	1.20E-03	mmscf/hr	Х	-	-	=	0.01	lb/hr	х	8,760	х	0.0005	ton/lb	=	0.03	TPY
PM _{TOT}	7.60E+00	lb/mmscf	Х	1.20E-03	mmscf/hr	Х		-	=	0.01	lb/hr	х	8,760	х	0.0005	ton/lb	=	0.04	TPY
Formaldehyde	7.50E-02	lb/mmscf	Х	1.20E-03	mmscf/hr	Х	-	-	=	<0.01	lb/hr	х	8,760	х	0.0005	ton/lb	=	<0.01	TPY
n-Hexane	1.80E+00	lb/mmscf	Х	1.20E-03	mmscf/hr	х	-	-	=	<0.01	lb/hr	х	8,760	Х	0.0005	ton/lb	=	0.01	TPY
Benzene	2.10E-03	lb/mmscf	Х	1.20E-03	mmscf/hr	х	-	-	=	<0.01	lb/hr	х	8,760	Х	0.0005	ton/lb	=	<0.01	TPY
Toluene	3.40E-03	lb/mmscf	Х	1.20E-03	mmscf/hr	Х		-	=	<0.01	lb/hr	х	8,760	х	0.0005	ton/lb	=	<0.01	TPY
Other HAP	1.90E-03	lb/mmscf	Х	1.20E-03	mmscf/hr	Х	-	-	=	<0.01	lb/hr	х	8,760	х	0.0005	ton/lb	=	<0.01	TPY
CO ₂	5.31E+01	kg/mmBtu	Х	1.23E+00	mmBtu/hr	Х	2.20462	lb/kg	=	144.02	lb/hr	х	8,760	х	0.0005	ton/lb	=	630.82	TPY
CH₄	1.00E-03	kg/mmBtu	Х	1.23E+00	mmBtu/hr	Х	2.20462	lb/kg	=	<0.01	lb/hr	х	8,760	х	0.0005	ton/lb	=	0.01	TPY
N ₂ O	1.00E-04	kg/mmBtu	х	1.23E+00	mmBtu/hr	х	2.20462	lb/kg	=	<0.01	lb/hr	Х	8,760	х	0.0005	ton/lb	=	<0.01	TPY

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

Unit ID: FL-1

	Molecular	Strea Miscellaneou Blowd	is Vents and		Total Stre	ams Burne	d in Flare		Net Heating Value	Net Btu Rate
Component	Weight	1.89E+03	scfh	Uncor	ntrolled	scfd	Cont	rolled	Value	
		Mole %	lb/hr	lb/hr	TPY		lb/hr	ТРҮ	Btu/scf	Btu/hr
Water	18.0153	0.000%	0.00	0.00	0.00	0	0.00	0.00	0.00	0
Hydrogen Sulfide	34.081	0.000%	0.00	0.00	0.00	0	0.00	0.00	586.80	0
Carbon Dioxide	44.010	0.842%	1.85	1.85	0.55	383	1.85	0.55	0.00	0
Nitrogen	28.013	1.686%	2.36	2.36	0.71	766	2.36	0.71	0.00	0
Helium	4.003	0.000%	0.00	0.00	0.00	0	0.00	0.00	0.00	0
Oxygen	31.999	0.000%	0.00	0.00	0.00	0	0.00	0.00	0.00	0
Methane	16.043	63.797%	51.04	51.04	15.31	28,969	1.02	0.31	909.40	1,097,676
Ethane	30.069	18.282%	27.41	27.41	8.22	8,301	0.55	0.16	1,618.70	559,886
Propane	44.096	8.714%	19.16	19.16	5.75	3,957	0.38	0.11	2,314.90	381,651
i-Butane	58.122	1.130%	3.27	3.27	0.98	513	0.07	0.02	3,000.40	64,125
n-Butane	58,122	3.144%	9.11	9.11	2.73	1.427	0.18	0.05	3,010.80	179.073
i-Pentane	72.149	0.662%	2.38	2.38	0.71	301	0.05	0.01	3,699.00	46,344
n-Pentane	72.149	0.965%	3.47	3.47	1.04	438	0.07	0.02	3,706.90	67,673
n-Hexane	86.175	0.147%	0.63	0.63	0.19	67	0.01	0.00	4,403.80	12,273
Other Hexanes	86.175	0.410%	1.76	1.76	0.53	186	0.04	0.01	4,403.80	34,125
Heptanes	100.202	0.077%	0.39	0.39	0.12	35	0.01	0.00	5,100.00	7,445
Benzene	78.114	0.016%	0.06	0.06	0.02	7	0.00	0.00	3,590.90	1,072
Toluene	92.141	0.012%	0.06	0.06	0.02	6	0.00	0.00	4,273.60	990
Ethylbenzene	106.167	0.001%	0.00	0.00	0.00	0	0.00	0.00	4,970.50	80
Xylenes	106.167	0.004%	0.02	0.02	0.01	2	0.00	0.00	4,957.10	332
Octanes	114.229	0.096%	0.54	0.54	0.16	43	0.01	0.00	5,796.00	10,479
2,2,4-Trimethylpentane	114.231	0.008%	0.05	0.05	0.01	4	0.00	0.00	5,778.80	867
Nonanes	128.255	0.000%	0.00	0.00	0.00	0	0.00	0.00	6,493.20	0
Decanes	142.282	0.000%	0.00	0.00	0.00	0	0.00	0.00	7,189.60	0
	Totals =	99.9908%	123.57	123.57	37.07	45,404				2,464,090
	Total VOC =	15.384%	40.91	40.91	12.27		0.82	0.25	Heat Value	
			Total HAP =	0.82	0.25		0.02	0.00	(Btu/scf)	1,302
			Total H ₂ S=	0.00	0.00		0.00	0.00	()	
					MW of Stream =	24.78				

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

ONEOK Rockies Midstream, L.L.C. Beavertail Compressor Station Tank Information

	Equipment In	formation		
	TK-1 - TK-4	TK-5 - TK-8	LTK-1	WTK-1 - WTK-2
Contents ¹	Condensate	Condensate	Condensate/Water	Produced Water
Number of Tanks	5	5	1	2
Capacity (bbl)	400	400	400	400
Capacity (gal)	16,800	16,800	16,800	16,800
Total Throughput (bbl/yr)	159,235	159,235	34,750	69,500
Total Throughput (gal/yr)	6,687,870	6,687,870	1,459,500	2,919,000
Per Tank Throughput (bbl/yr)	31,847	31,847	34,750	34,750
Per Tank Throughput (gal/yr)	1,337,574	1,337,574	1,459,500	1,459,500
TANKS 4.0.9d Working Losses (lb/yr) ²	9,102.50	9,102.50	8,806.86	110.09
TANKS 4.0.9d Breathing Losses (lb/yr) ²	3,782.58	3,782.58	3,026.06	37.83
Flash Calculation Method	Process Simulation	Process Simulation	N/A	Process Simulation
VOC Tank Flashing Emission Factor (Ib VOC/bbl) ²	4.21	4.21	N/A	0.04210
CO ₂ Tank Flashing Emission Factor (lb CO ₂ /bbl) ²	0.023	0.023	0.01840	0.00023
CH ₄ Tank Flashing Emission Factor (Ib CH ₄ /bbl) ²	0.334	0.334	0.26720	0.00334
Control Type	Vapor Recovery Unit	Vapor Recovery Unit	Vapor Recovery Unit	None
Capture/Control Efficiency ³	96%	96%	96%	0%

Notes:

1) Produced water tanks are assumed to contain 99% produced water and 1% condensate. Therefore, produced water emissions are assumed to be 1% of those calculated for condensate. The LACT Divert Tank (LTK-1) is assumed to contain 80% condensate and 20% water. Liquids from LTK-1 are routed back to the inlet separator.

2) Working and breathing calculated using EPA TANKS 4.0.9d. Flashing calculated with representative ProMax process simulation. See attached reports and following tables.

3) Capture/control efficiency is based on the VRU controlling 100% of captured vapors when operating, plus 5% uncontrolled.

4) Per-tank emissions are shown on following table. ORM requests a federally enforceable limit of 5.99 tons per year per tank.

Unit ID: TK-1 - TK-5 (EACH)

Uncontrolled Emissions

Pollutant	Working	J Losses		Breathin	g Losses		Flashing	g Losses		Annual E	missions	Ор	erating Ho	urs	Conv	ersion		Hourly Er	nissions ¹
VOC ²	4.55	TPY	+	1.89	TPY	+	67.04	TPY	=	73.48	TPY	/	8,760	Х	2,000	lb/ton	=	16.78	lb/hr
n-Hexane	0.18	TPY	+	0.07	TPY	+	2.64	TPY	=	2.89	TPY	/	8,760	Х	2,000	lb/ton	=	0.66	lb/hr
Benzene	0.01	TPY	+	<0.01	TPY	+	0.12	TPY	=	0.13	TPY	/	8,760	Х	2,000	lb/ton	=	0.03	lb/hr
Toluene	<0.01	TPY	+	<0.01	TPY	+	0.04	TPY	=	0.04	TPY	/	8,760	Х	2,000	lb/ton	=	0.01	lb/hr
Ethylbenzene	<0.01	TPY	+	<0.01	TPY	+	<0.01	TPY	=	<0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Xylenes	<0.01	TPY	+	<0.01	TPY	+	0.01	TPY	=	0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Other HAP	0.00	TPY	+	0.00	TPY	+	0.00	TPY	=	0.00	TPY	/	8,760	Х	2,000	lb/ton	=	0.00	lb/hr
CO ₂ ³	-	TPY	+	-	TPY	+	0.37	TPY	=	0.37	TPY	/	8,760	Х	2,000	lb/ton	=	0.08	lb/hr
CH ₄ ³	-	TPY	+	-	TPY	+	5.32	TPY	=	5.32	TPY	/	8,760	Х	2,000	lb/ton	=	1.21	lb/hr

Controlled Emissions⁴

Pollutant	Working	g Losses		Breathing	g Losses		Flashing	g Losses		Annual E	missions	Ор	erating Ho	urs	Conv	ersion		Hourly E	missions
VOC	0.18	TPY	+	0.08	TPY	+	2.68	TPY	=	2.94	TPY	/	8,760	Х	2,000	lb/ton	=	0.67	lb/hr
n-Hexane	0.01	TPY	+	<0.01	TPY	+	0.11	TPY	=	0.12	TPY	1	8,760	Х	2,000	lb/ton	=	0.03	lb/hr
Benzene	<0.01	TPY	+	<0.01	TPY	+	<0.01	TPY	=	0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Toluene	<0.01	TPY	+	<0.01	TPY	+	<0.01	TPY	=	<0.01	TPY	1	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Ethylbenzene	<0.01	TPY	+	<0.01	TPY	+	<0.01	TPY	=	<0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Xylenes	<0.01	TPY	+	<0.01	TPY	+	<0.01	TPY	=	<0.01	TPY	1	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Other HAP	0.00	TPY	+	0.00	TPY	+	0.00	TPY	=	0.00	TPY	/	8,760	Х	2000	lb/ton	=	0.00	lb/hr
CO ₂	-	TPY	+	-	TPY	+	0.01	TPY	=	0.01	TPY	1	8,760	Х	2000	lb/ton	=	<0.01	lb/hr
CH₄	-	TPY	+	-	TPY	+	0.21	TPY	=	0.21	TPY	/	8,760	Х	2000	lb/ton	=	0.05	lb/hr

Estimated HAP Composition (% by Weight)⁵

Pollutant	Wt%
n-Hexane	3.938%
Benzene	0.179%
Toluene	0.059%
Ethylbenzene	0.002%
Xylenes	0.010%
Other HAP	0.000%
Total HAP =	4.188%

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. VOC, CO₂ and CH₄ TPY flashing losses calculated with ProMax flash emission factor as follows: lb/bbl factor * annual bbl throughput * 1/2000 = TPY.

3) Per API Chapter 5: CH₄ and CO₂ 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 CH₄ or CO₂.

4) Capture/control efficiency is based on the VRU controlling 100% of captured vapors when operating, plus 5% downtime.

5) HAP composition of tank vapors calculated with site-specific ProMax process simulation.

Unit ID: TK-6 - TK-10 (EACH)

Uncontrolled Emissions

Pollutant	Working	g Losses		Breathin	g Losses		Flashing	g Losses		Annual E	missions	Ор	erating Ho	urs	Conv	ersion		Hourly E	missions ¹
VOC ²	4.55	TPY	+	1.89	TPY	+	67.04	TPY	=	73.48	TPY	1	8,760	Х	2,000	lb/ton	=	16.78	lb/hr
n-Hexane	0.18	TPY	+	0.07	TPY	+	2.64	TPY	=	2.89	TPY	/	8,760	Х	2,000	lb/ton	=	0.66	lb/hr
Benzene	0.01	TPY	+	<0.01	TPY	+	0.12	TPY	=	0.13	TPY	/	8,760	Х	2,000	lb/ton	=	0.03	lb/hr
Toluene	<0.01	TPY	+	<0.01	TPY	+	0.04	TPY	=	0.04	TPY	/	8,760	Х	2,000	lb/ton	=	0.01	lb/hr
Ethylbenzene	<0.01	TPY	+	<0.01	TPY	+	<0.01	TPY	=	<0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Xylenes	<0.01	TPY	+	<0.01	TPY	+	0.01	TPY	=	0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Other HAP	0.00	TPY	+	0.00	TPY	+	0.00	TPY	=	0.00	TPY	1	8,760	Х	2,000	lb/ton	=	0.00	lb/hr
CO23	-	TPY	+	-	TPY	+	0.37	TPY	=	0.37	TPY	/	8,760	Х	2,000	lb/ton	=	0.08	lb/hr
CH4 ³	-	TPY	+	-	TPY	+	5.32	TPY	=	5.32	TPY	1	8,760	Х	2,000	lb/ton	=	1.21	lb/hr

Controlled Emissions⁴

Pollutant	Working	g Losses		Breathin	g Losses		Flashing	g Losses		Annual E	missions	Ор	erating Ho	urs	Conv	ersion		Hourly E	missions
VOC	0.18	TPY	+	0.08	TPY	+	2.68	TPY	=	2.94	TPY	/	8,760	Х	2,000	lb/ton	=	0.67	lb/hr
n-Hexane	0.01	TPY	+	<0.01	TPY	+	0.11	TPY	=	0.12	TPY	/	8,760	Х	2,000	lb/ton	=	0.03	lb/hr
Benzene	<0.01	TPY	+	<0.01	TPY	+	<0.01	TPY	=	0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Toluene	<0.01	TPY	+	<0.01	TPY	+	<0.01	TPY	=	<0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Ethylbenzene	<0.01	TPY	+	<0.01	TPY	+	<0.01	TPY	=	<0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Xylenes	<0.01	TPY	+	<0.01	TPY	+	<0.01	TPY	=	<0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Other HAP	0.00	TPY	+	0.00	TPY	+	0.00	TPY	=	0.00	TPY	/	8,760	Х	2000	lb/ton	=	0.00	lb/hr
CO2	-	TPY	+	-	TPY	+	0.01	TPY	=	0.01	TPY	/	8,760	Х	2000	lb/ton	=	<0.01	lb/hr
CH₄	-	TPY	+	-	TPY	+	0.21	TPY	=	0.21	TPY	/	8,760	Х	2000	lb/ton	=	0.05	lb/hr

Estimated HAP Composition (% by Weight)⁵

Pollutant	Wt%
n-Hexane	3.938%
Benzene	0.179%
Toluene	0.059%
Ethylbenzene	0.002%
Xylenes	0.010%
Other HAP	0.000%
Total HAP =	4.188%

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. VOC, CO₂ and CH₄ TPY flashing losses calculated with ProMax flash emission factor as follows: lb/bbl factor * annual bbl throughput * 1/2000 = TPY.

3) Per API Chapter 5: CH₄ and CO₂ 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 CH₄ or CO₂.

4) Capture/control efficiency is based on the VRU controlling 100% of captured vapors when operating, plus 5% downtime.

5) HAP composition of tank vapors calculated with site-specific ProMax process simulation.

ONEOK Rockies Midstream, L.L.C. Beavertail Compressor Station Produced Water Tank Emissions Calculations

Unit ID: WTK-1 - WTK-2 (EACH)

Uncontrolled Emissions

Pollutant	Working	j Losses		Breathing	g Losses		Flashing	g Losses		Annual E	missions	Ор	erating Ho	urs	Conve	ersion		Hourly Er	missions ¹
VOC ²	0.06	TPY	+	0.02	TPY	+	0.73	TPY	=	0.81	TPY	/	8,760	Х	2,000	lb/ton	=	0.18	lb/hr
n-Hexane	<0.01	TPY	+	<0.01	TPY	+	0.03	TPY	=	0.03	TPY	/	8,760	Х	2,000	lb/ton	=	0.01	lb/hr
Benzene	<0.01	TPY	+	<0.01	TPY	+	<0.01	TPY	=	<0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Toluene	<0.01	TPY	+	<0.01	TPY	+	<0.01	TPY	=	<0.01	TPY	1	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Ethylbenzene	<0.01	TPY	+	<0.01	TPY	+	<0.01	TPY	=	<0.01	TPY	1	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Xylenes	<0.01	TPY	+	<0.01	TPY	+	<0.01	TPY	=	<0.01	TPY	1	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Other HAP	0.00	TPY	+	0.00	TPY	+	0.00	TPY	=	0.00	TPY	1	8,760	Х	2,000	lb/ton	=	0.00	lb/hr
CO23	-	TPY	+	-	TPY	+	<0.01	TPY	=	<0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
CH4 ³	-	TPY	+	-	TPY	+	0.06	TPY	=	0.06	TPY	/	8,760	Х	2,000	lb/ton	=	0.01	lb/hr

Estimated HAP Composition (% by Weight)⁵

Pollutant	Wt%
n-Hexane	3.938%
Benzene	0.179%
Toluene	0.059%
Ethylbenzene	0.002%
Xylenes	0.010%
Other HAP	0.000%
Total HAP =	4.188%

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. VOC TPY flashing losses calculated with ProMax flash emission factor as follows: lb VOC/bbl * annual bbl throughput * 1/2000 = TPY.

3) Per API Chapter 5: CH₄ and CO₂ 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 CH₄ or CO₂.

4) HAP composition of tank vapors calculated with site-specific ProMax process simulation.

Unit ID: LTK-1

Uncontrolled Emissions

Pollutant	Working	g Losses		Breathin	g Losses		Flashin	g Losses		Annual E	missions	Ор	erating Ho	urs	Conv	ersion		Hourly E	missions ¹
VOC ²	4.40	TPY	+	1.51	TPY	+	0.00	TPY	=	5.92	TPY	/	8,760	Х	2,000	lb/ton	=	1.35	lb/hr
n-Hexane	0.17	TPY	+	0.06	TPY	+	0.00	TPY	=	0.23	TPY	/	8,760	Х	2,000	lb/ton	=	0.05	lb/hr
Benzene	0.01	TPY	+	<0.01	TPY	+	0.00	TPY	=	0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Toluene	<0.01	TPY	+	<0.01	TPY	+	0.00	TPY	=	<0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Ethylbenzene	<0.01	TPY	+	<0.01	TPY	+	0.00	TPY	=	<0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Xylenes	<0.01	TPY	+	<0.01	TPY	+	0.00	TPY	=	<0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Other HAP	0.00	TPY	+	0.00	TPY	+	0.00	TPY	=	0.00	TPY	/	8,760	Х	2,000	lb/ton	=	0.00	lb/hr
CO23	-	TPY	+	-	TPY	+	0.37	TPY	=	0.37	TPY	/	8,760	Х	2,000	lb/ton	=	0.08	lb/hr
CH ₄ ³	-	TPY	+	-	TPY	+	5.37	TPY	=	5.37	TPY	/	8,760	Х	2,000	lb/ton	=	1.23	lb/hr

Controlled Emissions⁴

Pollutant	Working	j Losses		Breathin	g Losses		Flashing	g Losses		Annual E	missions	Ор	erating Ho	urs	Conv	ersion		Hourly E	missions
VOC	0.18	TPY	+	0.06	TPY	+	0.00	TPY	=	0.24	TPY	/	8,760	Х	2,000	lb/ton	=	0.05	lb/hr
n-Hexane	0.01	TPY	+	<0.01	TPY	+	0.00	TPY	=	0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Benzene	<0.01	TPY	+	<0.01	TPY	+	0.00	TPY	=	<0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Toluene	<0.01	TPY	+	<0.01	TPY	+	0.00	TPY	=	<0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Ethylbenzene	<0.01	TPY	+	<0.01	TPY	+	0.00	TPY	=	<0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Xylenes	<0.01	TPY	+	<0.01	TPY	+	0.00	TPY	=	<0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Other HAP	0.00	TPY	+	0.00	TPY	+	0.00	TPY	=	0.00	TPY	/	8,760	Х	2000	lb/ton	=	0.00	lb/hr
CO2	-	TPY	+	-	TPY	+	0.00	TPY	=	0.00	TPY	/	8,760	Х	2000	lb/ton	=	0.00	lb/hr
CH₄	-	TPY	+	-	TPY	+	0.00	TPY	=	0.00	TPY	/	8,760	Х	2000	lb/ton	=	0.00	lb/hr

Estimated HAP Composition (% by Weight)⁵

Pollutant	Wt%
n-Hexane	3.938%
Benzene	0.179%
Toluene	0.059%
Ethylbenzene	0.002%
Xylenes	0.010%
Other HAP	0.000%
Total HAP =	4.188%

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. VOC, CO₂ and CH₄ TPY flashing losses calculated with ProMax flash emission factor as follows: lb/bbl factor * annual bbl throughput * 1/2000 = TPY.

3) Per API Chapter 5: CH₄ and CO₂ 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 CH₄ or CO₂.

4) Capture/control efficiency is based on the VRU controlling 100% of captured vapors when operating, plus 5% downtime.

5) HAP composition of tank vapors calculated with representative ProMax process simulation.

ONEOK Rockies Midstream, L.L.C. Beavertail Compressor Station 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)	13,376
Throughput (10 ⁶ gal/yr)	13.376
Maximum Loading Rate (gal/hr)	7,500
VOC Emission Factor (lb/bbl) ¹	0.1256
TOC Emission Factor (tonne/10 ⁶ gal) ³	0.91
TOC Emission Factor (ton/10 ⁶ gal) ³	1.00
ProMax Flash Gas CH₄ wt%	0.017%
ProMax Flash Gas CO ₂ wt%	0.004%
Control Type	None

Notes:

1) Properties based on EPA TANKS 4.0.9d.

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/10⁶ gal * 1.10231131 ton/tonne.

ONEOK Rockies Midstream, L.L.C. **Beavertail Compressor Station Condensate Truck Loading Emissions Calculations**

Unit ID: TL-1

Uncontrolled Emissions

Pollutant	Emiss	ion Factor		Throu	ughput		Conversion			Annual E	missions	- providence of the second s		ours Coi		ersion	Avera	age Hourly	Emissions ¹
VOC	0.1256	lb/bbl	Х	318,470	bbl/yr	х	0.0005	ton/lb	=	20.00	TPY	/	8,760	Х	2,000	lb/ton	=	4.57	lb/hr
n-Hexane	-	-	-	-	-	-	-	-	=	0.79	TPY	/	8,760	Х	2,000	lb/ton	=	0.18	lb/hr
Benzene	-	-	-	-	-	-	-	-	=	0.04	TPY	/	8,760	Х	2,000	lb/ton	=	0.01	lb/hr
Toluene	-	-	-	-	-	-	-	-	=	0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Ethylbenzene	-	-	-	-	-	-	-	-	=	<0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Xylenes	-	-	-	-	-	-	-	-	=	<0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
Other HAP	-	-	-	-	-	-	-	-	=	0.00	TPY	/	8,760	Х	2,000	lb/ton	=	0.00	lb/hr
CO ₂	1.00	ton/10 ⁶ gal	Х	13.376	10 ⁶ gal/yr	х	0.004%	Wt%	=	<0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr
CH₄	1.00	ton/10 ⁶ gal	Х	13.376	10 ⁶ gal/yr	х	0.017%	Wt%	=	<0.01	TPY	/	8,760	Х	2,000	lb/ton	=	<0.01	lb/hr

Estimated HAP Composition (% by Weight)²

Pollutant	Wt%
n-Hexane	3.938%
Benzene	0.179%
Toluene	0.059%
Ethylbenzene	0.002%
Xylenes	0.010%
Other HAP	0.000%
Total HAP =	4.188%

Notes:

1) Due to variable short-term emission rates, average lb/hr rate shown for reference only. 2) See speciated liquids analysis on Facility Analyses page. HAP weight% calculated as % of total hydrocarbons in the sample. All HAP assumed to volatize from liquids for most conservative emissions estimate.

ONEOK Rockies Midstream, L.L.C. Beavertail Compressor Station Methanol Tank Information

Equipment Information	
	MTK-1
Contents	Methanol
Number of Tanks	1
Capacity (bbl)	400
Capacity (gal)	16,800
Total Throughput (bbl/yr)	20,800
Total Throughput (gal/yr)	873,600
Per Tank Throughput (bbl/yr)	20,800
Per Tank Throughput (gal/yr)	873,600
TANKS 4.0.9d Working Losses (lb/yr) ²	489.34
TANKS 4.0.9d Breathing Losses (lb/yr) ²	182.76
Control Type	None

Notes:

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

Unit ID: MTK-1

Uncontrolled Emissions

Pollutant	Working	g Losses		Breathin	g Losses		Annual E	missions	Ор	erating Ho	urs	Conve	ersion		missions ¹	
VOC/Methanol ²	0.24	TPY	+	0.09	TPY	=	0.34	TPY	/	8,760	Х	2,000	lb/ton	=	0.08	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. Beavertail Compressor Station Fugitive Equipment Data and Emission Factors

Ec	quipment	Inform	ation - Gas Se	ervice							тос	Emis	sions				
Component	Cour	nt ¹	Emissio	on Factor ²	Cont	rol Efficiency		Hourly E	missions	Oper	ating Hours		Conve	ersion		Annual Er	missions
Valves - Gas	750	Х	9.92E-03	lb/hr/source	Х	75.00%	=	1.86	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	8.15	TPY
Connectors - Gas	1900	Х	4.41E-04	lb/hr/source	Х	30.00%	=	0.59	lb/hr	Х	8,761	Х	0.0005	ton/lb	=	2.57	TPY
Flanges - Gas	1000	Х	8.60E-04	lb/hr/source	х	30.00%	=	0.60	lb/hr	Х	8,760	х	0.0005	ton/lb	=	2.64	TPY
Relief Valves - Gas	60	Х	1.94E-02	lb/hr/source	х	0.00%	=	1.16	lb/hr	Х	8,760	х	0.0005	ton/lb	=	5.10	TPY
Compressor Seals - Gas	16	х	1.94E-02	lb/hr/source	х	75.00%	=	0.08	lb/hr	х	8,760	х	0.0005	ton/lb	=	0.34	TPY
Other - Gas	10	Х	1.94E-02	lb/hr/source	Х	0.00%	=	0.19	lb/hr	х	8,760	Х	0.0005	ton/lb	=	0.85	TPY

Eq	uipment Ir	nforma	tion - Liquid S	ervice							TOC Emissions									
Component	Coun	t ¹	Emissio	on Factor ²	Cont	rol Efficiency		Hourly E	missions	Oper	ating Hours		Conve	ersion		Annual Er	missions			
Valves - Light Oil	380	Х	5.51E-03	lb/hr/source	Х	75.00%	=	0.52	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	2.29	TPY			
Flanges - Light Oil	40	Х	2.43E-04	lb/hr/source	Х	30.00%	=	0.01	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	0.03	TPY			
Connectors - Light Oil	1,100	Х	4.63E-04	lb/hr/source	Х	30.00%	=	0.36	lb/hr	Х	8,760	Х	0.0005	ton/lb	=	1.56	TPY			
Pump Seals - Light Oil	2	Х	2.87E-02	lb/hr/source	Х	75.00%	=	0.01	lb/hr	х	8,760	х	0.0005	ton/lb	=	0.06	TPY			
Other - Light Oil	5	Х	1.65E-02	lb/hr/source	х	0.00%	=	0.08	lb/hr	х	8,760	Х	0.0005	ton/lb	=	0.36	TPY			

Notes:

1) Component counts estimated based on similar site.

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

Component		VOC En	nissions			CO ₂ Emissions					issions		H ₂ S Emissions				
Valves - Gas	0.64	lb/hr	2.79	TPY	0.03	lb/hr	0.12	TPY	0.80	lb/hr	3.48	TPY	0.00	lb/hr	0.00	TPY	
Connectors - Gas	0.20	lb/hr	0.88	TPY	0.01	lb/hr	0.04	TPY	0.25	lb/hr	1.10	TPY	0.00	lb/hr	0.00	TPY	
Flanges - Gas	0.21	lb/hr	0.90	TPY	0.01	lb/hr	0.04	TPY	0.26	lb/hr	1.13	TPY	0.00	lb/hr	0.00	TPY	
Relief Valves - Gas	0.40	lb/hr	1.75	TPY	0.02	lb/hr	0.08	TPY	0.50	lb/hr	2.18	TPY	0.00	lb/hr	0.00	TPY	
Compressor Seals - Gas	0.03	lb/hr	0.12	TPY	<0.01	lb/hr	0.01	TPY	0.03	lb/hr	0.15	TPY	0.00	lb/hr	0.00	TPY	
Other - Gas	0.07	lb/hr	0.29	TPY	<0.01	lb/hr	0.01	TPY	0.08	lb/hr	0.36	TPY	0.00	lb/hr	0.00	TPY	
Valves - Light Oil	0.52	lb/hr	2.28	TPY	<0.01	lb/hr	<0.01	TPY	<0.01	lb/hr	<0.01	TPY	0.00	lb/hr	0.00	TPY	
Flanges - Light Oil	0.01	lb/hr	0.03	TPY	<0.01	lb/hr	<0.01	TPY	<0.01	lb/hr	<0.01	TPY	0.00	lb/hr	0.00	TPY	
Connectors - Light Oil	0.36	lb/hr	1.56	TPY	<0.01	lb/hr	<0.01	TPY	<0.01	lb/hr	<0.01	TPY	0.00	lb/hr	0.00	TPY	
Pump Seals - Light Oil	0.01	lb/hr	0.06	TPY	<0.01	lb/hr	<0.01	TPY	<0.01	lb/hr	<0.01	TPY	0.00	lb/hr	0.00	TPY	
Other - Light Oil	0.08	lb/hr	0.36	TPY	<0.01	lb/hr	<0.01	TPY	<0.01	lb/hr	<0.01	TPY	0.00	lb/hr	0.00	TPY	
Total	2.52	lb/hr	11.02	TPY	0.07	lb/hr	0.29	TPY	1.92	lb/hr	8.40	TPY	0.00	lb/hr	0.00	TPY	

Component	r	-Hexane	Emission	5	E	Benzene	Emissions	6		Toluene B	Emissions	5	Eth	ylbenzer	ne Emissio	ons		Xylene E	missions		2,2,4-Tri	imethylpe	entane Em	issions
Valves - Gas	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	<0.01	TPY	<0.01	lb/hr	<0.01	TPY	<0.01	lb/hr	<0.01	TPY
Connectors - 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
Flanges - 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
Relief Valves - 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
Other - 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	0.11	lb/hr	0.50	TPY	0.01	lb/hr	0.02	TPY	0.01	lb/hr	0.03	TPY	<0.01	lb/hr	<0.01	TPY	0.01	lb/hr	0.02	TPY	0.00	lb/hr	0.00	TPY
Flanges - Light Oil	<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	0.00	lb/hr	0.00	TPY
Connectors - Light Oil	0.08	lb/hr	0.34	TPY	<0.01	lb/hr	0.01	TPY	<0.01	lb/hr	0.02	TPY	<0.01	lb/hr	<0.01	TPY	<0.01	lb/hr	0.02	TPY	0.00	lb/hr	0.00	TPY
Pump Seals - Light Oil	<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	0.00	lb/hr	0.00	TPY
Other - Light Oil	0.02	lb/hr	0.08	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	0.00	lb/hr	0.00	TPY
Total	0.24	lb/hr	1.04	TPY	0.01	lb/hr	0.05	TPY	0.01	lb/hr	0.06	TPY	<0.01	lb/hr	0.01	TPY	0.01	lb/hr	0.04	TPY	<0.01	lb/hr	0.01	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. Beavertail Compressor Station Miscellaneous Venting and Blowdown Emissions Calculations

		Stream 1	Emis	elene	
	Molecular	Inlet Gas	Emis	510115	
Component	Weight	Mole %	scf/yr ¹	TPY ²	
Hydrogen Sulfide	34.081	0.000%	0	0.00	
Carbon Dioxide	44.010	0.842%	3,942	0.23	
Nitrogen	28.013	1.686%	7,891	0.29	
Helium	4.003	0.000%	0	0.00	
Oxygen	31.999	0.000%	0	0.00	
Methane	16.043	63.797%	298,569	6.31	
Ethane	30.069	18.282%	85,557	3.39	
Propane	44.096	8.714%	40,781	2.37	
i-Butane	58.122	1.130%	5,287	0.40	
n-Butane	58.122	3.144%	14,712	1.13	
i-Pentane	72.149	0.662%	3,099	0.29	
n-Pentane	72.149	0.965%	4,516	0.43	
n-Hexane	86.175	0.147%	689	0.08	
Other Hexanes	86.175	0.410%	1,917	0.22	
Heptanes	100.202	0.077%	361	0.05	
Benzene	78.114	0.016%	74	0.01	
Toluene	92.141	0.012%	57	0.01	
Ethylbenzene	106.167	0.001%	4	<0.01	
Xylenes	106.167	0.004%	17	<0.01	
Octanes	114.229	0.096%	447	0.07	
2,2,4-Trimethylpentane	114.231	0.008%	37	0.01	
Nonanes	128.255	0.000%	0	0.00	
Decanes	142.282	0.000%	0	0.00	
	Totals =	99.991%	467,957	15.28	
		Total VOC =	71,998	5.06	
		Total HAP =	878	0.10	

Estimated Annual Volume468,000 scf/yrMolar 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.



PERMIT APPLICATION FOR TITLE V PERMIT TO OPERATE

NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 52858 (9-2021)

SECTION A - FACILIT		ON								
Name of Firm or Orga	nization									
	II, L.L.C.									
Responsible Person Dick Vande Bossche										
Title Vice President - ONEOK F	Rockies Midstream	Operations			Telephone Number (406) 489-1544				E-mail Address dick.vandebossche@oneok.com	
Mailing Address (Stree 100 W. Fifth St.	et & Number)							·		
City Tulsa					State Oklahoma				IP Code 103	
Contact Person for Air Kale Hanner	Pollution Matte	ers								
Title Supervisor - Environmental Compliance						Telephone Number (918) 732-1477			E-mail Address kale. hanner@oneok.com	
Mailing Address (Stree 100 W. Fifth St.	et & Number)							•		
City Tulsa					State Oklah	-			IP Code 103	
Facility Name Beavertail Compressor Sta	ation									
Facility Address (Stree	et & Number)									
City					State	9		Z	IP Code	
CountyLatitude (decimal degrMcKenzie47.78586					es)		Longitude -103.04027	e (decimal degrees)		
Legal Description of F	acility Site									
Quarter	Quarter	25	Sectic 5	on	Township 105N		ship	Range 97W		
Land Area at Facility S	Site	•		MSL Ele	vation	at Facil	ity			
_13 Acres	s (or)	_Sq. Ft.		2285'						

SECTION B – GENERAL NATURE OF BUSINESS

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

SECTION C – GENERAL PERMIT INFORMATION

Type of Permit to Operate? Initial Minor Modificatio	n 🗌 Significant Modification								
If application is for renewal or revision of an existing Title V permit, please provide the following data:									
Current Permit to Operate	Current Permit to Operate Expiration Date:								
Number: Renewal: Revision:									

SECTION D – MINOR PERMIT MODIFICATION

Affected Emission Unit(s):	Description of Proposed Change:						
Not Applicable							
Applicable Requirements (NSPS, PSD, etc.):	Net Effect on Source Emissions						
	Emission Unit(s):						
	Facility:						
Are you requesting that minor permit modification procedures be used in accordance with NDAC 33.1-15-14-							
06.e(1)(a)?							

SECTION E – SOURCE IDENTIFICATION AND CATEGORY OF EACH SOURCE INCLUDED ON THIS PERMIT APPLICATION

Your Emission Unit Number	Emission Unit Description	New Emission Unit? (check if yes)	PTC Number/ ACP Number	Initial Application	Minor Modification	Significant Modification	Other	Explain if Other
C-1	Compressor Engine		ACP-018131	\checkmark				
C-2	Compressor Engine		ACP-018131	\checkmark				
C-3	Compressor Engine		ACP-018131	\checkmark				
C-4	Compressor Engine		ACP-018131	\checkmark				
C-5	Compressor Engine		ACP-018131	\checkmark				
C-6	Compressor Engine		ACP-018131	\checkmark				
C-8	Compressor Engine		ACP-018131	\checkmark				
C-9	Compressor Engine		ACP-018131	\checkmark				
TK-1-10	Condensate Tanks		PRC18044	\checkmark				
WTK-1	Produced Water Tank		PTC18044	\checkmark				
WTK-2	Produced Water Tank		PTC18044	\checkmark				
MTK-1	Methanol Tank		PTC18044	\checkmark				
TL-1	Vents and blowdowns		PTC18044	\checkmark				

	1	1			1
FUG	Fugitives	PTC18044	\checkmark		
FL-1	Flare	PTC18044	\checkmark		
BD	Blowdowns	PTC18044	\checkmark		

Add additional pages if necessary

SECTION F1 – IDENTIFICATION OF AIR CONTAMINANTS

Check all which are emitted in measurable quantities into the atmosphere from any operation at facility								
Arsenic	Chlorine Compounds	Sulfur Compounds	🔲 Radioisotopes					
Asbestos	Chromium Compounds	🗌 Hydrogen Sulfide	Visible Emissions					
🗌 🗌 Beryllium	Fluoride Compounds	🗌 Odors	Particulates (specify)					
🗌 🗌 Cadmium	Volatile Organic Compounds	🔳 Carbon Monoxide	🗌 Dust					
🗌 Lead	Other Organic Compounds	Nitrogen Compounds	🗌 Silica					
Mercury	Greenhouse Gases (CO2e)	Pesticides	Other (specify)					
List Specific Compounds:								
-								

SECTION F2 – IDENTIFICATION OF AIR CONTAMINANTS

Has emission unit testing been done at the facility?								
Emission Unit No.	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement- list permit number)					
C 1-6	10/05/2022	Every 8,760 operating hours or 3 years	NSPS JJJJ					
C 8-9	03/30/2022	Every 8,760 operating hours or 3 years	NSPS JJJJ					
FUG	08/23/2023	Quarterly	NSPS OOOOa					

Add additional pages if necessary

SECTION G1 – ADDITIONAL FORMS

	Indicate which of the following forms are attached and made part of the application							
×	Emission Unit Information (SFN 61006)		Flexible Permits (SFN 61007)					
×	Compliance Schedule and Plan (SFN 61008)		Potential To Emit Table					

SECTION G2 – OTHER ATTACHMENTS INCLUDED AS PART OF THIS APPLICATION

1.	Facility Emission Calculations	4.	Supporting Documentation
2.	Plot Plan	5.	
3.	Process Flow Diagram	6.	

I, the undersigned applicant, am fully aware that statements made in this application and the attached exhibits and statements constitute the application for Permit to Operate Air Contaminant sources from the North Dakota Department of Environmental Quality and certify that the information in this application is true, correct and complete to the best of my knowledge and belief. Further, I agree to comply with the provisions of Chapter 23.1-06 of the North Dakota Century Code and all rules and regulations of the Department, or revisions thereof. I also understand the permit is nontransferable and, if granted a permit, I will promptly notify the Department upon sale or legal transfer of this permitted establishment.

Signature of Applicant	-Docusigned by: Dick Vande Bosselu	Date 9/28/2023
	67B797C4193640F	

INSTRUCTIONS

These instructions are intended to assist permit applicants in the completion of the enclosed forms with the degree of accuracy and detail necessary to allow the determination of whether to grant or deny a permit to operate an air contaminant source or modification.

All information included in the application, including maximum estimated emission rates, will be used to make the above determination. The information that is supplied in the application may be used to establish permit conditions. The emission rates provided should be based on the most credible data available. Although AP-42 provides general information, it should not be solely relied on to develop emission rates. Other sources of information that accurately represent the actual conditions that the emission unit will be operated under, such as actual test data or manufacturer's data, may be preferable.

For any air contaminant source or modification described in SFN 52858, SFN 61006 must also be must be completed and attached for each emission unit. For the facility's compliance schedule, SFN 61008 must be completed and submitted. If the facility requests a flexible permit SFN 61007, must be completed and submitted.

Those existing sources of air contaminants which are proven by the applicant to be designed or controlled so as to operate without emitting air contaminants in violation of air pollution rules and regulations will be granted a permit to operate.

Certain sizes and types of existing or new sources are exempted from the requirement to obtain a permit to continue operating or to construct. These sizes are specified in the instruction sheets for the relevant permit application forms or can be obtained by contacting the Department.

Any information included on the forms, other than emission data, that would divulge production or sales figures or methods, processes or production unique to such person or would otherwise tend to affect adversely the competitive position of such person by revealing trade secrets should be noted by inserting the word "confidential" in the margin next to the appropriate item. Any information, other than production figures, that is requested to be kept in confidence must be justified by a written statement setting forth the reasons for the request. All information not marked confidential will be available for public inspection.

These forms are intended to inform permit applicants of the type of information required in order that a permit to operate or construct be granted. It is not possible to design forms which are ideally suited to every conceivable operation. Permit applicants are encouraged to submit additional supplementary material when it is felt that the completion of these forms does not provide an adequate explanation of the operation.

It will be necessary to refer to the North Dakota Air Pollution Control Rules (Article 33.1-15 NDAC; online at www.legis.nd.gov/information/acdata/html/33.1-15.html), especially those parts which deal with the permit system and those chapters which specify emission limitations for each air contaminant, in order to satisfactorily complete a permit application. Electronic copies of air pollution control permit application forms are available online at www.deq.nd.gov/AQ/forms.aspx. Paper copies of all forms, as well as the rules, are available on request. To cover the costs of printing and postage, the charge for a copy of the North Dakota Air Pollution Control Rules is \$15.00.

Applicants should contact the Department prior to preparation and submittal of an application to determine what additional information will be required for a particular source or modification and the method to be used in performing the analyses.

SEND COMPLETED APPLICATION AND ALL ATTACHMENTS TO:

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



EMISSION UNIT FOR TITLE V PERMIT TO OPERATE

NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A - EQUIPMENT INFORMATION Type of Unit or Process (rotary dryer, cupola furnace, Emission Unit Number: Emission Point Number: crusher, pelletizer, engine, etc.) C-1 C-1 Engine Make Model Installation or manufacture date Caterpillar G3608 LE After 07/01/2010 Operating Capacity (specific units) Capacity (manufacturer's or designer's guaranteed maximum) 2,370-hp 2.370-hp Brief description of operation of unit or process: **Compressor Engine** Brief description of alternative operating scenario (see Alternative Emission Point: Section M1 & M2 to elaborate): None None

SECTION B -OPERATING SCHEDULE

Are you agreeing to a limit on the operating schedule for this unit? Yes No							
Hours Per Day	Days Per Week Weeks Per Year Peak Production Dates of Annual						
	_		Season (if any)	Shutdown			
24	7	52	N/A	N/A			
			,, .				

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes No (If No, show normal operating schedule.)							
	P	rocess Time Fram	e	Specify Units			
Material	Hour	Week	Year	(tons, Btu, Gal., etc)			
Natural gas (usage)	15246	2,568,299	133,551,579	scf			

SECTION D1 – APPLICABLE REQUIREMENTS

Generally describe all applicable requirements.							
Regulations (i.e. SIP, NESHAP, PSD,	Monitoring	Recordkeeping	Reporting	Testing	Applicable Emission Standards		
NSPS, etc)	Requirements	Requirements	Requirements	Requirements	(include units)		
NSPS JJJJ	Stack testing	Engine maintenance	Initial notification w/in 30 days	Initial within 180 days	1.0 g/hp-hr NOx		
NSPS JJJJ	-	Test results	Test notification 30 days prior	Then every 8760 hours/3yrs	2.0 g/hp-hr CO		
NSPS JJJJ	-	Notifications	Submit test report w/in 60 days	-	0.7 g/hp-hr VOC		
NSPS JJJJ	NSPS JJJJ - C		-	-	-		
33.1-15-03 (Opacity) Periodic observations		Presence of Visible Emissions	With each semiannual report	-	20%		
33.1-15-08 (Air pollution from ICE)		-	-	-	_		

Section D2 - IDENTIFICATION OF AIR CONTAMINANTS									
Has emission	Has emission unit testing been done at the facility? 🗌 Yes 🔳 No								
Emission Unit ID	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)						
C-1	10/05/2022	Every 8,760 hours or 3 years	NSPS JJJJ						

SECTION D2 - IDENTIFICATION OF AIR CONTAMINANTS

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F - FUELS USED

Coal (Tons/Yr)	% Sulfur	% Ash	Oil (Gal/Yr)	% Sulfur	Grade No.	l
Natural Gas (Thousand CF/Yr) 133,551		LP Gas (Gal/Yr)		Other (Specify)		

SECTION G – STACK PARAMETERS

List each pollutant separately.								
Pollutant (use	Stack Height	Stack Diameter	Gas Volume		Gas Velocity			
CAS for HAPs)	(ft)	(ft at top)	(ACFM)	Exit Temp (°F)	(fps)			
All, see Section I.	34.5	1.8	15955	878	104.50			
Stack Base UTM C	oordinate X:		Stack Base UTM Coordinate Y:					
646853.50			5294319.24					

SECTION H – ALTERNATIVE STACK PARAMETERS

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.							
	Am	ount	Basis of Estimate (AP-42, testing,				
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)				
NOx	3.66	16.02	Manufacturer's Specifications				
СО	2.61	11.44	Manufacturer's Specifications				
VOC	3.66	16.02	NSPS JJJJ Limits				
Particulate Matter	0.16	0.68	AP-42 Table 3.2-2 (7/00)				
Formaldehyde	0.27	1.19	Manufacturer Data				
SO2	0.01	0.04	AP-42 Table 3.2-2 (7/00)				
Total HAPS	0.37	1.61					

SECTION J1 – AIR POLLUTION CONTROL EQUIPMENT

Туре:	Cyclone		Multiclone	Baghouse		Electrostatic Precip	pitator
	U Wet Scrubber		Spray Dryer	□ None			
	Other – Specif	_{fy:} Oxid	lation Ca	talyst			
Name of N	Manufacturer		Model Num			Date to Be Insta	lled
Mirate	ch						
Applicatio	n: 🗌 Boiler		Kiln	Engine			
Other -	– Specify:						
Pollutants	Removed	CO		Formaldehyde			
Design Ef	ficiency (%)	80		80			

Operating Efficiency (%)	80	80	
Describe method used to dete	ermine operating efficie	ency:	
Manufacturer specifica	ations		

SECTION J2 – GAS CONDITIONS

Gas Conditions	Inlet		Outlet	
Gas Volume (SCFM; 68°F; 14.7 psia)	15,955			
Gas Temperature (°F)		878		
Gas Pressure (in. H ₂ O)				
Gas Velocity (ft/sec)	1	04.50		
Pollutant Concentration (Specify pollutant and unit of	Pollutant	Unit of Concentration	Inlet	Outlet
concentration)				
Pressure drop through gas cleaning device (in. H₂O)	•		



EMISSION UNIT FOR TITLE V PERMIT TO OPERATE

NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A - EQUIPMENT INFORMATION Type of Unit or Process (rotary dryer, cupola furnace, Emission Unit Number: Emission Point Number: crusher, pelletizer, engine, etc.) C-2 C-2 Engine Make Model Installation or manufacture date Caterpillar G3608 LE After 07/01/2010 Operating Capacity (specific units) Capacity (manufacturer's or designer's guaranteed maximum) 2,370-hp 2,370-hp Brief description of operation of unit or process: **Compressor Engine** Brief description of alternative operating scenario (see Alternative Emission Point: Section M1 & M2 to elaborate): None None

SECTION B -OPERATING SCHEDULE

Are you agreeing to a limit on the operating schedule for this unit? Yes No						
Hours Per Day	lours Per Day Days Per Week Weeks Per Year Peak Production Dates of Annual					
	Season (if any) Shutdow					
24	1	52	N/A	N/A		

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes No (If No, show normal operating schedule.)						
	P	rocess Time Fram	Specify Units			
Material	Hour	Week	Year	(tons, Btu, Gal., etc)		
Natural gas (usage)	15246	2,568,299	133,551,579	scf		

SECTION D1 – APPLICABLE REQUIREMENTS

Generally describe a	all applicable requirements.						
Regulations (i.e. SIP, NESHAP, PSD, NSPS, etc)	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements	Testing Requirements	Applicable Emission Standards		
NSPS, etc)	Requirements	Requirements	Requirements	Requirements	(include units)		
NSPS JJJJ	Stack testing	Engine maintenance	Initial notification w/in 30 days	Initial within 180 days	1.0 g/hp-hr NOx		
NSPS JJJJ	-	Test results	Test notification 30 days prior	Then every 8760 hours/3yrs	2.0 g/hp-hr CO		
NSPS JJJJ	-	Notifications	Submit test report w/in 60 days	-	0.7 g/hp-hr VOC		
NSPS JJJJ	-	Operating Hours	-	-	-		
33.1-15-03 (Opacity)	Periodic observations	Presence of Visible Emissions	With each semiannual report	-	20%		
33.1-15-08 (Air pollution from ICE)	-	_	-	-	-		

SECTION D2 – IDENTIFICATION OF AIR CONTAM	INANTS	
Has emission unit testing been done at the facility?	☐ Yes	

Has emission	Has emission unit testing been done at the facility?							
Emission Unit ID	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)					
C-2	10/05/2022	Every 8,760 hours or 3 years	NSPS JJJJ					

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F - FUELS USED

Coal (Tons/Yr)	% Sulfur	% Ash	Oil (Gal/Yr)	% Sulfur	Grade No.	l
Natural Gas (Tho 133,551	usand CF/Yr)	LP Gas	(Gal/Yr)	Other (S	Specify)	

SECTION G – STACK PARAMETERS

List each pollutant	ist each pollutant separately.							
Pollutant (use	Stack Height	Stack Diameter	Gas Volume		Gas Velocity			
CAS for HAPs)	(ft)	(ft at top)	(ACFM)	Exit Temp (°F)	(fps)			
All, see Section I.	34.5	1.8	15955	878	104.50			
Stack Base UTM Coordinate X:			Stack Base UTM Coordinate Y:					
646855.71			5294319.55					

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.								
	Amount		Basis of Estimate (AP-42, testing,					
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)					
NOx	3.66	16.02	Manufacturer's Specifications					
СО	2.61	11.44	Manufacturer's Specifications					
VOC	3.66	16.02	NSPS JJJJ Limits					
Particulate Matter	0.16	0.68	AP-42 Table 3.2-2 (7/00)					
Formaldehyde	0.27	1.19	Manufacturer Data					
SO2	0.01	0.04	AP-42 Table 3.2-2 (7/00)					
Total HAPS	0.37	1.61						

Туре:	Cyclone		Multiclone	Baghouse		Electrostatic Precip	pitator	
	U Wet Scrubber		Spray Dryer	□ None				
	Other – Specif	_{fy:} Oxid	lation Ca	talyst				
Name of N	Manufacturer		Model Num			Date to Be Insta	lled	
Mirate	ch							
Applicatio	n: 🗌 Boiler		Kiln	Engine				
Other -	– Specify:							
Pollutants	Removed	CO		Formaldehyde				
Design Ef	ficiency (%)	80		80				

Operating Efficiency (%)	80	80				
Describe method used to dete	ermine operating efficie	ency:				
Manufacturer specifications						

Gas Conditions	Inlet		Outlet	
Gas Volume (SCFM; 68°F; 14.7 psia)	1:	5,955		
Gas Temperature (°F)		878		
Gas Pressure (in. H ₂ O)				
Gas Velocity (ft/sec)	1	04.50		
Pollutant Concentration (Specify pollutant and unit of	Pollutant	Unit of Concentration	Inlet	Outlet
concentration)				
Pressure drop through gas cleaning device (in. H₂O)	· · ·		



NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A - EQUIPMENT INFORMATION Type of Unit or Process (rotary dryer, cupola furnace, Emission Unit Number: Emission Point Number: crusher, pelletizer, engine, etc.) C-3 C-3Engine Make Model Installation or manufacture date Caterpillar G3608 LE After 07/01/2010 Operating Capacity (specific units) Capacity (manufacturer's or designer's guaranteed maximum) 2,370-hp 2.370-hp Brief description of operation of unit or process: **Compressor Engine** Brief description of alternative operating scenario (see Alternative Emission Point: Section M1 & M2 to elaborate): None None

SECTION B -OPERATING SCHEDULE

Are you agreeing to a limit on the operating schedule for this unit? Yes INo							
Hours Per Day	Hours Per Day Days Per Week Weeks Per Year Peak Production Dates of Annual						
	_		Season (if any)	Shutdown			
24	7	52	N/A	N/A			

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes No (If No, show normal operating schedule.)								
	P	rocess Time Fram	e	Specify Units				
Material	Hour	Week	Year	(tons, Btu, Gal., etc)				
Natural gas (usage)	15246	2,568,299	133,551,579	scf				

Generally describe a	applicable requirements.					
Regulations (i.e. SIP, NESHAP, PSD,	Monitoring	Recordkeeping	Reporting	Testing	Applicable Emission Standards	
NSPS, etc)	Requirements	Requirements	Requirements	Requirements	(include units)	
NSPS JJJJ	Stack testing	Engine maintenance	Initial notification w/in 30 days	Initial within 180 days	1.0 g/hp-hr NOx	
NSPS JJJJ	-	Test results	Test notification 30 days prior	Then every 8760 hours/3yrs	2.0 g/hp-hr CO	
NSPS JJJJ	-	Notifications	Submit test report w/in 60 days	-	0.7 g/hp-hr VOC	
NSPS JJJJ	-	Operating Hours	-	-	-	
33.1-15-03 (Opacity)	Periodic observations	Presence of Visible Emissions	With each semiannual report	-	20%	
33.1-15-08 (Air pollution from ICE)	-	_	_	_	_	

SECTION L	D2 – IDENTIFICATION OF	AIR CONTAMINANTS	
Has emission	on unit testing been done a	t the facility?	
Emission Unit ID	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)

IDENTIFICATION OF AID CONTAMINANTS

C-3 10/05/2022 Every 8,760 hours or 3 years NSPS JJJJ

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F - FUELS USED

Coal (Tons/Yr)	% Sulfur	% Ash	Oil (Gal/Yr)	% Sulfur	Grade No.	l
Natural Gas (Thousand CF/Yr) 133.551		LP Gas	(Gal/Yr)	Other (Specify)		

SECTION G – STACK PARAMETERS

List each pollutant	separately.					
Pollutant (use	Stack Height	Stack Diameter	Gas Volume		Gas Velocity	
CAS for HAPs)	(ft)	(ft at top)	(ACFM)	Exit Temp (°F)	(fps)	
All, see Section I.	34.5	1.8	15955	878	104.50	
Stack Base UTM Coordinate X:			Stack Base UTM Coordinate Y:			
646895.44			5294320.30			

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.							
	Am	ount	Basis of Estimate (AP-42, testing,				
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)				
NOx	3.66	16.02	Manufacturer's Specifications				
СО	2.61	11.44	Manufacturer's Specifications				
VOC	3.66	16.02	NSPS JJJJ Limits				
Particulate Matter	0.16	0.68	AP-42 Table 3.2-2 (7/00)				
Formaldehyde	0.27	1.19	Manufacturer Data				
SO2	0.01	0.04	AP-42 Table 3.2-2 (7/00)				
Total HAPS	0.37	1.61					

Туре:	Cyclone		Multiclone	Baghouse		Electrostatic Precip	pitator
	U Wet Scrubber		Spray Dryer	□ None			
Other – Specify: Oxidation Catalyst							
Name of N	Manufacturer		Model Num			Date to Be Insta	lled
Miratech							
Applicatio	n: 🗌 Boiler		Kiln	Engine			
Other -	– Specify:						
Pollutants	Removed	CO		Formaldehyde			
Design Ef	ficiency (%)	80		80			

Operating Efficiency (%)	80	80	
Describe method used to dete	ermine operating efficie	ency:	
Manufacturer specifica	ations		

Gas Conditions	Inlet		Outlet		
Gas Volume (SCFM; 68°F; 14.7 psia)	15,955				
Gas Temperature (°F)		878			
Gas Pressure (in. H ₂ O)					
Gas Velocity (ft/sec)	1	04.50			
Pollutant Concentration (Specify pollutant and unit of	Pollutant	Unit of Concentration	Inlet	Outlet	
concentration)					
Pressure drop through gas cleaning device (in. H ₂ O)					



NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A - EQUIPMENT INFORMATION Type of Unit or Process (rotary dryer, cupola furnace, Emission Unit Number: Emission Point Number: crusher, pelletizer, engine, etc.) C-4 C-4 Engine Make Model Installation or manufacture date Caterpillar G3608 LE After 07/01/2010 Operating Capacity (specific units) Capacity (manufacturer's or designer's guaranteed maximum) 2,370-hp 2,370-hp Brief description of operation of unit or process: **Compressor Engine** Brief description of alternative operating scenario (see Alternative Emission Point: Section M1 & M2 to elaborate): None None

SECTION B -OPERATING SCHEDULE

Are you agreeing to a limit on the operating schedule for this unit? Yes No					
Hours Per Day	Days Per Week	Weeks Per Year	Peak Production	Dates of Annual	
			Season (if any)	Shutdown	
24	1	52	N/A	N/A	

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes No (If No, show normal operating schedule.)						
	P	rocess Time Fram	Specify Units			
Material	Hour	Week	Year	(tons, Btu, Gal., etc)		
Natural gas (usage)	15246	2,568,299	133,551,579	scf		

Generally describe all applicable requirements.						
Regulations (i.e. SIP, NESHAP, PSD,	Monitoring	Recordkeeping	Reporting	Testing	Applicable Emission Standards	
NSPS, etc)	Requirements	Requirements	Requirements	Requirements	(include units)	
NSPS JJJJ	Stack testing	Engine maintenance	Initial notification w/in 30 days	Initial within 180 days	1.0 g/hp-hr NOx	
NSPS JJJJ	-	Test results	Test notification 30 days prior	Then every 8760 hours/3yrs	2.0 g/hp-hr CO	
NSPS JJJJ	-	Notifications	Submit test report w/in 60 days	-	0.7 g/hp-hr VOC	
NSPS JJJJ	-	Operating Hours	-	-	-	
33.1-15-03 (Opacity)	Periodic observations	Presence of Visible Emissions	With each semiannual report	-	20%	
33.1-15-08 (Air pollution from ICE)	-	_	_	_	_	

SECTION D2 - IDEN	TIFICATION OF AIR	CONTAMINANTS
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Has emission	on unit testing been done a	t the facility? 🗌 Yes 🔳 No	
Emission Unit ID	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)
C-4	10/04/2022	Every 8,760 hours or 3 years	NSPS JJJJ

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F - FUELS USED

Coal (Tons/Yr)	% Sulfur	% Ash	Oil (Gal/Yr)	% Sulfur	Grade No.	l
Natural Gas (Thousand CF/Yr) 133,551		LP Gas	(Gal/Yr)	Other (Specify)		

SECTION G – STACK PARAMETERS

List each pollutant	separately.					
Pollutant (use	Stack Height	Stack Diameter	Gas Volume		Gas Velocity	
CAS for HAPs)	(ft)	(ft at top)	(ACFM)	Exit Temp (°F)	(fps)	
All, see Section I.	34.5	1.8	15955	878	104.50	
Stack Base UTM Coordinate X:			Stack Base UTM Coordinate Y:			
646854.83		5294210.62				

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.							
	Am	ount	Basis of Estimate (AP-42, testing,				
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)				
NOx	3.66	16.02	Manufacturer's Specifications				
СО	2.61	11.44	Manufacturer's Specifications				
VOC	3.66	16.02	NSPS JJJJ Limits				
Particulate Matter	0.16	0.68	AP-42 Table 3.2-2 (7/00)				
Formaldehyde	0.27	1.19	Manufacturer Data				
SO2	0.01	0.04	AP-42 Table 3.2-2 (7/00)				
Total HAPS	0.37	1.61					

Туре:	Cyclone		Multiclone	Baghouse		Electrostatic Precip	pitator	
	U Wet Scrubber		Spray Dryer	□ None				
	Other – Specify: Oxidation Catalyst							
Name of N	Manufacturer		Model Num			Date to Be Insta	lled	
Mirate	ch							
Applicatio	n: 🗌 Boiler		Kiln	Engine				
Other -	– Specify:							
Pollutants	Removed	CO		Formaldehyde				
Design Ef	ficiency (%)	80		80				

Operating Efficiency (%)	80	80						
Describe method used to dete	Describe method used to determine operating efficiency:							
Manufacturer specifications								

Gas Conditions	Inlet		Outlet		
Gas Volume (SCFM; 68°F; 14.7 psia)	15,955				
Gas Temperature (°F)	878				
Gas Pressure (in. H ₂ O)					
Gas Velocity (ft/sec)	1	04.50			
Pollutant Concentration (Specify pollutant and unit of	Pollutant	Unit of Concentration	Inlet	Outlet	
concentration)					
Pressure drop through gas cleaning device (in. H ₂ O)					



NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A - EQUIPMENT INFORMATION Type of Unit or Process (rotary dryer, cupola furnace, Emission Unit Number: Emission Point Number: crusher, pelletizer, engine, etc.) C-5 C-5 Engine Make Model Installation or manufacture date Caterpillar G3608 LE After 07/01/2010 Operating Capacity (specific units) Capacity (manufacturer's or designer's guaranteed maximum) 2,370-hp 2.370-hp Brief description of operation of unit or process: **Compressor Engine** Brief description of alternative operating scenario (see Alternative Emission Point: Section M1 & M2 to elaborate): None None

SECTION B -OPERATING SCHEDULE

Are you agreeing to a limit on the operating schedule for this unit? Yes						
Hours Per Day	lours Per Day Days Per Week Weeks Per Year Peak Production Dates of Annual					
	_		Season (if any)	Shutdown		
24	7	52	N/A	N/A		

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes No (If No, show normal operating schedule.)						
	Process Time Frame			Specify Units		
Material	Hour	Week	Year	(tons, Btu, Gal., etc)		
Natural gas (usage)	15246	2,568,299	133,551,579	scf		

Generally describe all applicable requirements.						
Regulations (i.e. SIP, NESHAP, PSD,	Monitoring	Recordkeeping	Reporting	Testing	Applicable Emission Standards	
NSPS, etc)	Requirements	Requirements	Requirements	Requirements	(include units)	
NSPS JJJJ	Stack testing	Engine maintenance	Initial notification w/in 30 days	Initial within 180 days	1.0 g/hp-hr NOx	
NSPS JJJJ	-	Test results	Test notification 30 days prior	Then every 8760 hours/3yrs	2.0 g/hp-hr CO	
NSPS JJJJ	-	Notifications	Submit test report w/in 60 days	-	0.7 g/hp-hr VOC	
NSPS JJJJ	-	Operating Hours	-	-	-	
33.1-15-03 (Opacity)	Periodic observations	Presence of Visible Emissions	With each semiannual report	-	20%	
33.1-15-08 (Air pollution from ICE)	-	_	_	_	_	

SECTION D2 - IDENTIFICATION OF	AIR CONTAMINANTS
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Has emissi	Has emission unit testing been done at the facility? 🗌 Yes 🔳 No							
Emission Unit ID	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)					
C-5	10/04/2022	Every 8,760 hours or 3 years	NSPS JJJJ					

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F - FUELS USED

Coal (Tons/Yr)	% Sulfur	% Ash	Oil (Gal/Yr)	% Sulfur	Grade No.	
Natural Gas (Thousand CF/Yr) 133,551		LP Gas	(Gal/Yr)	Other (S	Specify)	

SECTION G – STACK PARAMETERS

List each pollutant	List each pollutant separately.						
Pollutant (use	Stack Height	Stack Diameter	Gas Volume		Gas Velocity		
CAS for HAPs)	(ft)	(ft at top)	(ACFM)	Exit Temp (°F)	(fps)		
All, see Section I.	34.5	1.8	15955	878	104.50		
Stack Base UTM C	oordinate X:		Stack Base UTM Coordinate Y:				
646885.76			5294211.41				

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.						
	Am	ount	Basis of Estimate (AP-42, testing,			
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)			
NOx	3.66	16.02	Manufacturer's Specifications			
СО	2.61	11.44	Manufacturer's Specifications			
VOC	3.66	16.02	NSPS JJJJ Limits			
Particulate Matter	0.16	0.68	AP-42 Table 3.2-2 (7/00)			
Formaldehyde	0.27	1.19	Manufacturer Data			
SO2	0.01	0.04	AP-42 Table 3.2-2 (7/00)			
Total HAPS	0.37	1.61				

Туре:	Cyclone		Multiclone	Baghouse		Electrostatic Precip	pitator
	U Wet Scrubber		Spray Dryer	□ None			
	Other – Specif	_{fy:} Oxid	lation Ca	talyst			
Name of N	Manufacturer		Model Num			Date to Be Insta	lled
Mirate	ch						
Applicatio	n: 🗌 Boiler		Kiln	Engine			
Other -	– Specify:						
Pollutants	Removed	CO		Formaldehyde			
Design Ef	ficiency (%)	80		80			

Operating Efficiency (%)	80	80		
Describe method used to dete	ermine operating efficie	ency:		
Manufacturer specifications				

Gas Conditions	Inlet		Outlet		
Gas Volume (SCFM; 68°F; 14.7 psia)	15,955				
Gas Temperature (°F)	878				
Gas Pressure (in. H ₂ O)					
Gas Velocity (ft/sec)	1	04.50			
Pollutant Concentration (Specify pollutant and unit of	Pollutant	Unit of Concentration	Inlet	Outlet	
concentration)					
Pressure drop through gas cleaning device (in. H₂O)	· · ·			



NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A - EQUIPMENT INFORMATION Type of Unit or Process (rotary dryer, cupola furnace, Emission Unit Number: Emission Point Number: crusher, pelletizer, engine, etc.) C-6 C-6Engine Make Model Installation or manufacture date Caterpillar G3608 LE After 07/01/2010 Operating Capacity (specific units) Capacity (manufacturer's or designer's guaranteed maximum) 2,370-hp 2.370-hp Brief description of operation of unit or process: **Compressor Engine** Brief description of alternative operating scenario (see Alternative Emission Point: Section M1 & M2 to elaborate): None None

SECTION B -OPERATING SCHEDULE

Are you agreeing to a limit on the operating schedule for this unit? Yes No					
Hours Per Day	Days Per Week	Weeks Per Year	Peak Production	Dates of Annual	
	_		Season (if any)	Shutdown	
24	7	52	N/A	N/A	
			,, .		

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes No (If No, show normal operating schedule.)					
	P	rocess Time Fram	e	Specify Units	
Material	Hour	Week	Year	(tons, Btu, Gal., etc)	
Natural gas (usage)	15246	2,568,299	133,551,579	scf	

Generally describe all applicable requirements.						
Regulations (i.e. SIP, NESHAP, PSD,	Monitoring	Recordkeeping	Reporting	Testing	Applicable Emission Standards	
NSPS, etc)	Requirements	Requirements	Requirements	Requirements	(include units)	
NSPS JJJJ	Stack testing	Engine maintenance	Initial notification w/in 30 days	Initial within 180 days	1.0 g/hp-hr NOx	
NSPS JJJJ	-	Test results	Test notification 30 days prior	Then every 8760 hours/3yrs	2.0 g/hp-hr CO	
NSPS JJJJ	-	Notifications	Submit test report w/in 60 days	-	0.7 g/hp-hr VOC	
NSPS JJJJ	-	Operating Hours	-	-	-	
33.1-15-03 (Opacity)	Periodic observations	Presence of Visible Emissions	With each semiannual report	-	20%	
33.1-15-08 (Air pollution from ICE)	-	_	-	_	_	

Has emission	on unit testing been done a	t the facility? 🗌 Yes 🔳 No	
Emission Unit ID Emission Unit ID Completed		If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)
C-6	10/06/2022	Every 8,760 hours or 3 years	NSPS JJJJ

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F - FUELS USED

Coal (Tons/Yr)	% Sulfur	% Ash	Oil (Gal/Yr)	% Sulfur	Grade No.
Natural Gas (Tho 133,551	ousand CF/Yr)	LP Gas	(Gal/Yr)	Other (Specify)

SECTION G – STACK PARAMETERS

List each pollutant	separately.				
Pollutant (use	Stack Height	Stack Diameter	Gas Volume		Gas Velocity
CAS for HAPs)	(ft)	(ft at top)	(ACFM)	Exit Temp (°F)	(fps)
All, see Section I.	34.5	1.8	15955	878	104.50
Stack Base UTM Coordinate X:			Stack Base UTM Coordinate Y:		
646901.49			5294211.81		

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.						
	Amount		Basis of Estimate (AP-42, testing,			
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)			
NOx	3.66	16.02	Manufacturer's Specifications			
СО	2.61	11.44	Manufacturer's Specifications			
VOC	3.66	16.02	NSPS JJJJ Limits			
Particulate Matter	0.16	0.68	AP-42 Table 3.2-2 (7/00)			
Formaldehyde	0.27	1.19	Manufacturer Data			
SO2	0.01	0.04	AP-42 Table 3.2-2 (7/00)			
Total HAPS	0.37	1.61				

Туре:	Cyclone		Multiclone	Baghouse	Electrostatic Precip	pitator
	U Wet Scrubber		Spray Dryer	□ None		
	Other – Specif	_{fy:} Oxid	lation Ca	talyst		
Name of N	Manufacturer		Model Num		 Date to Be Insta	lled
Miratech						
Applicatio	n: 🗌 Boiler		Kiln	Engine		
Other -	– Specify:					
Pollutants	Removed	CO		Formaldehyde		
Design Ef	ficiency (%)	80		80		

Operating Efficiency (%)	80	80	
Describe method used to dete	ermine operating efficie	ency:	
Manufacturer specifica	ations		

Gas Conditions		Inlet	Outlet	
Gas Volume (SCFM; 68°F; 14.7 psia)	1:	5,955		
Gas Temperature (°F)		878		
Gas Pressure (in. H ₂ O)				
Gas Velocity (ft/sec)	1	04.50		
Pollutant Concentration (Specify pollutant and unit of	Pollutant	Unit of Concentration	Inlet	Outlet
concentration)				
Pressure drop through gas cleaning device (in. H ₂ O)				



NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A - EQUIPMENT INFORMATION Type of Unit or Process (rotary dryer, cupola furnace, Emission Unit Number: Emission Point Number: crusher, pelletizer, engine, etc.) **C-8** C-8Engine Make Model Installation or manufacture date Waukesha F3524GSI After 07/01/2010 Capacity (manufacturer's or designer's guaranteed Operating Capacity (specific units) maximum) 840-hp 840-hp Brief description of operation of unit or process: **Compressor Engine** Brief description of alternative operating scenario (see Alternative Emission Point: Section M1 & M2 to elaborate): None None

SECTION B -OPERATING SCHEDULE

Are you agreeing to a limit on the operating schedule for this unit? Yes INo					
Hours Per Day	Days Per Week	Weeks Per Year	Peak Production	Dates of Annual	
	_		Season (if any)	Shutdown	
24	7	52	N/A	N/A	
			,, .		

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes INo (If No, show normal operating schedule.)					
	P	rocess Time Fram	e	Specify Units	
Material	Hour	Week	Year	(tons, Btu, Gal., etc)	
Natural gas (usage)	6,879.6	6,879.6 1,158,956		scf	

Generally describe all applicable requirements.					
Regulations (i.e. SIP, NESHAP, PSD,	Monitoring	Recordkeeping	Reporting	Testing	Applicable Emission Standards
NSPS, etc)	Requirements	Requirements	Requirements	Requirements	(include units)
NSPS JJJJ	Stack testing	Engine maintenance	Initial notification w/in 30 days	Initial within 180 days	1.0 g/hp-hr NOx
NSPS JJJJ	-	Test results	Test notification 30 days prior	Then every 8760 hours/3yrs	2.0 g/hp-hr CO
NSPS JJJJ	-	Notifications	Submit test report w/in 60 days	-	0.7 g/hp-hr VOC
NSPS JJJJ	-	Operating Hours	-	-	-
33.1-15-03 (Opacity)	Periodic observations	Presence of Visible Emissions	With each semiannual report	-	20%
33.1-15-08 (Air pollution from ICE)	-	_	-	_	_

SECTION D2 – IDENTIFICATION OF AIR CONTAMINANTS						
Has emission	on unit testing been done a	t the facility? 🗌 Yes 🔳 No				
Emission Unit ID	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)			
C-8	3/30/2022	Every 8,760 hours or 3 years	NSPS JJJJ			

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F - FUELS USED

Coal (Tons/Yr)	% Sulfur	% Ash	Oil (Gal/Yr)	% Sulfur	Grade No.			
Natural Gas (Thousand CF/Yr) 60,265		LP Gas	(Gal/Yr)	Other (\$	Specify)			

SECTION G – STACK PARAMETERS

List each pollutant	ist each pollutant separately.									
Pollutant (use Stack Height		Stack Diameter	Gas Volume		Gas Velocity					
CAS for HAPs)	(ft)	(ft at top)	(ACFM)	Exit Temp (°F)	(fps)					
All, see Section I.	34.5	1.8	15955	878	104.50					
Stack Base UTM Coordinate X:			Stack Base UTM Coordinate Y:							
646931.45			5294212.57							

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.						
	Amount		Basis of Estimate (AP-42, testing,			
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)			
NOx	1.85	8.11	Manufacturer's Specifications			
СО	2.31	10.14	Manufacturer's Specifications			
VOC	1.30	5.68	NSPS JJJJ Limits			
Particulate Matter	0.14	5.68	AP-42 Table 3.2-2 (7/00)			
Formaldehyde	0.05	0.21	Manufacturer Data			
SO2	0.01	0.02	AP-42 Table 3.2-2 (7/00)			
Total HAPS	0.09	0.40				

Туре:	Cyclone		Multiclone	Baghouse		Electrostatic Precip	pitator			
	U Wet Scrubber		Spray Dryer	□ None						
	Other – Specif	_{fy:} Oxic	dation Ca	talyst						
Name of N	Name of Manufacturer Model Number Date to Be Installed									
EMIT										
Applicatio	n: 🗌 Boiler		Kiln	Engine						
Other -	– Specify:									
		1		I						
Pollutants	Removed	CO		Formaldehyde						
Design Ef	ficiency (%)	90		90						

Operating Efficiency (%)	90	90							
Describe method used to determine operating efficiency:									
Manufacturer specifica	ations								

Gas Conditions		Inlet	Outlet	
Gas Volume (SCFM; 68°F; 14.7 psia)		4,472		
Gas Temperature (°F)		1,228		
Gas Pressure (in. H ₂ O)				
Gas Velocity (ft/sec)		42		
Pollutant Concentration (Specify pollutant and unit of	Pollutant	Unit of Concentration	Inlet	Outlet
concentration)				
Processing drep through goe alcoping dovice				
Pressure drop through gas cleaning device	е (III. п ₂ О)			



NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A - EQUIPMENT INFORMATION Type of Unit or Process (rotary dryer, cupola furnace, Emission Unit Number: Emission Point Number: crusher, pelletizer, engine, etc.) C-9 C-9Engine Make Model Installation or manufacture date Waukesha F3524GSI After 07/01/2010 Capacity (manufacturer's or designer's guaranteed Operating Capacity (specific units) maximum) 840-hp 840-hp Brief description of operation of unit or process: **Compressor Engine** Brief description of alternative operating scenario (see Alternative Emission Point: Section M1 & M2 to elaborate): None None

SECTION B -OPERATING SCHEDULE

Are you agreeing to a limit on the operating schedule for this unit? Yes INo						
Hours Per Day	Days Per Week	Weeks Per Year	Peak Production	Dates of Annual		
	_		Season (if any)	Shutdown		
24	1	52	N/A	N/A		

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes No (If No, show normal operating schedule.)								
	P	rocess Time Fram	e	Specify Units				
Material	Hour	Week	Year	(tons, Btu, Gal., etc)				
Natural gas (usage)	6,879.6	1,158,956	60,265,726	scf				

Generally describe all applicable requirements.					
Regulations (i.e. SIP, NESHAP, PSD,	Monitoring	Recordkeeping	Reporting	Testing	Applicable Emission Standards
NSPS, etc)	Requirements	Requirements	Requirements	Requirements	(include units)
NSPS JJJJ	Stack testing	Engine maintenance	Initial notification w/in 30 days	Initial within 180 days	1.0 g/hp-hr NOx
NSPS JJJJ	ISPS JJJJ -		Test notification 30 days prior	Then every 8760 hours/3yrs	2.0 g/hp-hr CO
NSPS JJJJ	-	Notifications	Submit test report w/in 60 days	-	0.7 g/hp-hr VOC
NSPS JJJJ	-	Operating Hours	-	-	-
33.1-15-03 (Opacity)	Periodic observations	Presence of Visible Emissions	With each semiannual report	-	20%
33.1-15-08 (Air pollution from ICE)	-	_	_	_	_

SECTION DZ – IDENTIFICATION OF AIR CONTAMINANTS									
Has emission unit testing been done at the facility? Yes No									
Emission	Last Date when a Testing Program was	If Program is C			Regula MACT				

SECTION D2 - IDENTIFICATION OF AIR CONTAMINANTS

1 183 CI11331	on unit testing been done a		
Emission Unit ID	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)
C-9	3/30/2022	Every 8,760 hours or 3 years	NSPS JJJJ

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Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F - FUELS USED

Coal (Tons/Yr)	% Sulfur	% Ash	Oil (Gal/Yr)	% Sulfur	Grade No.
Natural Gas (Thousand CF/Yr) 60,265		LP Gas (Gal/Yr)		Other (Specify)	

SECTION G – STACK PARAMETERS

List each pollutant	separately.				
Pollutant (use	Stack Height	Stack Diameter	Gas Volume		Gas Velocity
CAS for HAPs)	(ft)	(ft at top)	(ACFM)	Exit Temp (°F)	(fps)
All, see Section I.	34.5	1.8	15955	878	104.50
Stack Base UTM Coordinate X:			Stack Base UTM Coordinate Y:		
646931.45			5294212.57		

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.						
	Amo	ount	Basis of Estimate (AP-42, testing,			
Pollutant (use CAS for HAPs)	Pounds/Hr Tons/Yr		engineering estimate, etc)			
NOx	1.85	8.11	Manufacturer's Specifications			
СО	2.31	10.14	Manufacturer's Specifications			
VOC	1.30	5.68	NSPS JJJJ Limits			
Particulate Matter	0.14	5.68	AP-42 Table 3.2-2 (7/00)			
Formaldehyde	0.05	0.21	Manufacturer Data			
SO2	0.01	0.02	AP-42 Table 3.2-2 (7/00)			
Total HAPS	0.09	0.40				

Туре:	Cyclone		Multiclone	Baghouse		Electrostatic Precip	pitator		
	U Wet Scrubber		Spray Dryer	□ None					
	Other – Specify: Oxidation Catalyst								
Name of N	Name of Manufacturer Model Number Date to Be Installed								
EMIT									
Applicatio	n: 🗌 Boiler		Kiln	Engine					
Other -	Other – Specify:								
Pollutants	Removed	CO		Formaldehyde					
Design Ef	ficiency (%)	90		90					

Operating Efficiency (%)	90	90				
Describe method used to dete	ermine operating efficie	ency:				
Manufacturer specifications						

Gas Conditions		Inlet	Outlet	
Gas Volume (SCFM; 68°F; 14.7 psia)	4,472			
Gas Temperature (°F)	1,228			
Gas Pressure (in. H ₂ O)				
Gas Velocity (ft/sec)	42			
Pollutant Concentration (Specify pollutant and unit of	Pollutant	Unit of Concentration	Inlet	Outlet
concentration)				
Processing drep through goe alcoping dovice				
Pressure drop through gas cleaning device	е (III. п ₂ О)			



NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A - EQUIPMENT INFORMATION

Type of Unit or Process (rotary dryer, cupola furnace, crusher, pelletizer, engine, etc.) Plant Flare	Emission Unit Number: FL-1	Emission Point Number: FL-1
Make -	Model –	Installation or manufacture date 2019
Capacity (manufacturer's or designer's guaranteed maximum)	Operating Capacity (specific 70 MMSCF/yr	units)

Brief description of operation of unit or process:

The flare system is used for safety, maintenance, emergencies, upsets and process flaring as needed. Any gas vented from the condensate tanks is also routed to the flare.

Brief description of alternative operating scenario (see	Alternative Emission Point:
Section M1 & M2 to elaborate):	N I
None	None

SECTION B -OPERATING SCHEDULE

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

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes No (If No, show normal operating schedule.)							
	Pi	rocess Time Fram	Specify Units				
Material	Hour	Week	Year	(tons, Btu, Gal., etc)			
Natural gas (flared)	0.008	1.34	70	MMscf			

Generally describe all applicable requirements.							
Regulations (i.e. SIP, NESHAP, PSD, NSPS, etc)	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements	Testing Requirements	Applicable Emission Standards (include units)		
40 CFR 60.18	Presence of pilot flame	Periods of pilot outage	Initial Notification	Method 22	No visible emissions		
40 CFR 60.18	-	Notifications and test reports	Start-up Notification	-	-		
40 CFR 60.18	-	-	Test notification and results	-	-		
33.1-15-03 (Opacity)	Periodic observations	Presence of Visible Emissions	With each semiannual report	-	20%		

SECTION D2 - IDENTIFICATION OF AI	R CONTAMINANTS
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Has emissi	Has emission unit testing been done at the facility?							
Emission Unit ID	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)					
FL-1	3/27/2020	N/A	NSPS 60.18					

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F - FUELS USED

	Coal (Tons/Yr)	% Sulfur	% Ash	Oil (Gal/Yr)	% Sulfur	Grade No.
Ī	Natural Gas (Tho Pilot - 3.268	ousand CF/Yr)	LP Gas	(Gal/Yr)	Other (\$	Specify)

SECTION G – STACK PARAMETERS

List each pollutant	separately.				
Pollutant (use	Stack Height	Stack Diameter	Gas Volume		Gas Velocity
CAS for HAPs)	(ft)	(ft at top)	(ACFM)	Exit Temp (°F)	(fps)
All, see Section I.	100	1.5		250	
Stack Base UTM C	oordinate X:		Stack Base UTM	Coordinate Y:	
646989.93			5294226.5 [°]	1	

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.						
	Amo	ount	Basis of Estimate (AP-42, testing,			
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)			
NOx	0.29	0.58	AP-42			
СО	0.86	0.67	AP-42			
VOC	0.82	0.27	Flare Stream: Mass Balance; Pilot: AP-42			
SO2	0.01	0.01	Flare Stream: Stoichiometric; Pilot: AP-42			
n-Hexane	0.01	0.01	Flare Stream: Mass Balance; Pilot: AP-42			
Total HAPS	0.02	0.01	Flare Stream: Mass Balance; Pilot: AP-42			

Type:	Cyclone		Multiclone	Baghouse	Electrostatic Preci	pitator
	Wet Scrubber		Spray Dryer	None		
	Other – Specify	y:				
Name of	Manufacturer		Model Num	ber	Date to Be Insta	lled
Applicatio	on: 🗌 Boiler		Kiln	Engine		
Other	– Specify:					
Pollutants	s Removed					
Design E	fficiency (%)					

Operating Efficiency (%)			
Describe method used to dete	ermine operating efficie	ency:	
		-	

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



NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A – EQUIPMENT INFORMATION

Type of Unit or Process (rotary dryer, cupola furnace, crusher, pelletizer, engine, etc.)	Emission Unit Number:	Emission Point Number:
Storage Tank	LIN-I	LTK-1
Make	Model	Installation or manufacture date
-	-	2019
Capacity (manufacturer's or designer's guaranteed	Operating Capacity (specific	units)
maximum)	400-bbl	
Brief description of operation of unit or process:		
Condensate storage tank		
Brief description of alternative operating scenario (see Section M1 & M2 to elaborate):	Alternative Emission Point:	
None	None	

SECTION B - OPERATING SCHEDULE

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

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes No (If No, show normal operating schedule.)						
	Process Time Frame			Specify Units		
Material	Hour	Week	Year	(tons, Btu, Gal., etc)		
Condensate	3.97	668	34750	bbl		

Generally describe all applicable requirements.							
Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements	Testing Requirements	Applicable Emission Standards (include units)			
-	-	-	-	-			
	Monitoring	Monitoring Recordkeeping	Monitoring Recordkeeping Reporting	Monitoring Recordkeeping Reporting Testing			

SECTION D2 - IDENTIFICATION OF AIR CONTAMINANTS

Has emissi	on unit testing been done a	t the facility? 🗌 Yes 🔳 No	
Emission Unit ID	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

Not Applicable SECTION F – FUELS USED

Coal (Tons/Yr)	% Sulfur	% Ash	Oil (Gal/Yr)	% Sulfur	Grade No.
Natural Gas (Tho	Natural Gas (Thousand CF/Yr) LP Gas		(Gal/Yr)	Other (\$	Specify)

SECTION G – STACK PARAMETERS Not Applicable - fugitive source

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

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.							
	Am	ount	Basis of Estimate (AP-42, testing,				
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)				
VOC	0.05	0.24	ProMax Process Simulation + TANKS 4.0.9d				
n-Hexane	0.01	0.01	ProMax Process Simulation				

Type:	Cyclone	Multiclone	🗌 Baghouse	□ E	Electrostatic Precipitator				
	U Wet Scrubber								
	Other – Speci	_{fy:} Vapor Recov	very Unit						
Name of	Name of Manufacturer Model Number Date to Be Installed								
	manaratarar								
Applicatio	on: 🗌 Boiler	Kiln	Engine						
Other	– _{Specify:} Conde	ensate Storage	Tanks						
Pollutants	s Removed	VOCs							
Design E	fficiency (%)	100							

Operating Efficiency (%)	95*						
Describe method used to deter	Describe method used to determine operating efficiency:						
Manufacturer specificat	tions.						
*Operating efficiency is 5% downtime for mainte		RU being 100%	efficient when op	erating and a			

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



NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A – EQUIPMENT INFORMATION Type of Unit or Process (rotary dryer, cupola furnace, Emission Unit Number: Emission Point Number: crusher, pelletizer, engine, etc.) MTK-1 MTK-1 Storage Tank Make Model Installation or manufacture date _ _ 2019 Capacity (manufacturer's or designer's guaranteed Operating Capacity (specific units) maximum) 400-bbl Brief description of operation of unit or process: Methanol storage tank Brief description of alternative operating scenario (see Alternative Emission Point: Section M1 & M2 to elaborate): None None

SECTION B - OPERATING SCHEDULE

Are you agreeing to a limit on the operating schedule for this unit? Yes No						
Hours Per Day	Days Per Week Weeks Per Year Peak Production Dates of Annual					
	L	Season (if any) Shutdo				
24	7	52	N/A	N/A		

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes No (If No, show normal operating schedule.)						
	Process Time Frame			Specify Units		
Material	Hour	Week	Year	(tons, Btu, Gal., etc)		
Methanol	2.37	400	20,800	bbl		

Generally describe all applicable requirements.							
Regulations (i.e. SIP, NESHAP, PSD, NSPS, etc)	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements	Testing Requirements	Applicable Emission Standards (include units)		
33-15-07-01.3 (Submerged Fill)	-	-	-	-	-		

SECTION D2 – IDENTIFICATION OF AIR CONTAMINANTS

Has emissi	on unit testing been done a	t the facility? 🗌 Yes 🔳 No	
Emission Unit ID	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F – FUELS USED Not Applicable

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

SECTION G – STACK PARAMETERS Not Applicable - fugitive source

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

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.							
	Amount		Basis of Estimate (AP-42, testing,				
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)				
VOC	0.08	0.34	AP-42				

Туре:	Cyclone	Multiclone	🗌 Baghouse	Electrostatic Precip	pitator
	U Wet Scrubber	Spray Dryer	None		
	Other – Specify:				
Name of I	Manufacturer	Model Num	ber	Date to Be Insta	lled
Applicatio	n: 🗌 Boiler	🗌 Kiln	Engine		
Other – Specify:					
Pollutants	Removed				
Design Ef	fficiency (%)				

Operating Efficiency (%)			
Describe method used to dete	ermine operating efficie	ency:	
		-	

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



NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A – EQUIPMENT INFORMATION

Type of Unit or Process (rotary dryer, cupola furnace, crusher, pelletizer, engine, etc.)	Emission Unit Number:	Emission Point Number:
Storage Tank	TK-1	TK-1
Make	Model	Installation or manufacture date
-	-	2019
Capacity (manufacturer's or designer's guaranteed	Operating Capacity (specific	units)
maximum)	400-bbl	
Brief description of operation of unit or process:		
Condensate storage tank		
Brief description of alternative operating scenario (see Section M1 & M2 to elaborate):	Alternative Emission Point:	
None	None	

SECTION B - OPERATING SCHEDULE

Are you agreeing to a limit on the operating schedule for this unit? Yes INo						
Hours Per Day	Hours Per Day Days Per Week Weeks Per Year Peak Production Dates of Annual					
	_		Season (if any)	Shutdown		
24	7	52	N/A	N/A		

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes No (If No, show normal operating schedule.)						
	Pi	rocess Time Fram	e	Specify Units		
Material	Hour	Week	Year	(tons, Btu, Gal., etc)		
Condensate	3.64	612	31,847	bbl		

Generally describe all applicable requirements.							
Regulations (i.e. SIP, NESHAP, PSD, NSPS, etc)	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements	Testing Requirements	Applicable Emission Standards (include units)		
33-15-07-01.3 (Submerged Fill)	-	-	-	-	-		

Has emission unit testing been done at the facility? Yes No							
Emission Unit ID Last Date when a Testing Program was Completed		If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS MACT, Permit Requirement-list permi number)				

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F – FUELS USED Not Applicable

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

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

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.							
	Amount		Basis of Estimate (AP-42, testing,				
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)				
VOC	0.67	2.94	ProMax Process Simulation + TANKS 4.0.9d				
n-Hexane	0.03	0.12	ProMax Process Simulation				
CO2e	1.22	5.33	ProMax Process Simulation				

Type:	Cyclone	Multiclone	Baghouse	🗌 EI	ectrostatic Precipitator
	U Wet Scrubber		None		
	Other – Specing	_{fy:} <u>Vapor Recov</u>	ery Unit		
Name of N	Manufacturer	Model Num	ber		Date to Be Installed
1	n: 🗌 Boiler	🗌 Kiln	Engine		
Other -	– _{Specify:} Conde	ensate Storage	Tanks		
Pollutants	Removed	VOCs			
Design Ef	ficiency (%)	100			

Operating Efficiency (%)	95*				
Describe method used to determine operating efficiency:					
Manufacturer specifica	ations.				
*Operating efficiency i 5% downtime for main	s based on the V	RU being 100%	efficient when op	erating and a	

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



NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A – EQUIPMENT INFORMATION

Type of Unit or Process (rotary dryer, cupola furnace, crusher, pelletizer, engine, etc.)	Emission Unit Number:	Emission Point Number:
Storage Tank	TK-2	TK-2
Make	Model	Installation or manufacture date
-	-	2019
Capacity (manufacturer's or designer's guaranteed	Operating Capacity (specific	units)
maximum)	400-bbl	
Brief description of operation of unit or process:		
Condensate storage tank		
Brief description of alternative operating scenario (see Section M1 & M2 to elaborate):	Alternative Emission Point:	
None	None	

SECTION B - OPERATING SCHEDULE

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

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes INo (If No, show normal operating schedule.)					
	P	rocess Time Fram	e	Specify Units	
Material	Hour	Week	Year	(tons, Btu, Gal., etc)	
Condensate	3.64	612	31,847	bbl	

Generally describe a	all applicable require	ments.			
Regulations (i.e. SIP, NESHAP, PSD, NSPS, etc)	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements	Testing Requirements	Applicable Emission Standards (include units)
33-15-07-01.3 (Submerged Fill)	-	-	-	-	-

Has emissi	Has emission unit testing been done at the facility? 🗌 Yes 🔳 No							
Emission Unit ID	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)					

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F – FUELS USED Not Applicable

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

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

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.					
	Amount		Basis of Estimate (AP-42, testing,		
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)		
VOC	0.67	2.94	ProMax Process Simulation + TANKS 4.0.9d		
n-Hexane	0.03	0.12	ProMax Process Simulation		
CO2e	1.22	5.33	ProMax Process Simulation		

Type:	Cyclone	Multiclone	Baghouse	🗌 EI	ectrostatic Precipitator	
	U Wet Scrubber		None			
	Other – Specing	_{fy:} <u>Vapor Recov</u>	ery Unit			
Name of N	Manufacturer	Model Num	ber		Date to Be Installed	
1	n: 🗌 Boiler	🗌 Kiln	Engine			
Other -	– _{Specify:} Conde	ensate Storage	Tanks			
Pollutants	Removed	VOCs				
Design Ef	ficiency (%)	100				

Operating Efficiency (%)	95*			
Describe method used to dete	ermine operating efficie	ency:		
Manufacturer specifica	ations.			
*Operating efficiency i 5% downtime for main	s based on the V	RU being 100%	efficient when op	erating and a

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



NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A - EQUIPMENT INFORMATION

Type of Unit or Process (rotary dryer, cupola furnace, crusher, pelletizer, engine, etc.)	Emission Unit Number:	Emission Point Number:	
Storage Tank	TK-3	TK-3	
Make	Model	Installation or manufacture date	
-	-	2019	
Capacity (manufacturer's or designer's guaranteed	Operating Capacity (specific units)		
maximum)	400-bbl		
Brief description of operation of unit or process:			
Condensate storage tank			
Brief description of alternative operating scenario (see Section M1 & M2 to elaborate):	Alternative Emission Point:		
None	None		

SECTION B - OPERATING SCHEDULE

Are you agreeing to a limit on the operating schedule for this unit? Yes INo				
Hours Per Day	Days Per Week	Weeks Per Year	Peak Production	Dates of Annual
	_		Season (if any)	Shutdown
24	7	52	N/A	N/A

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes No (If No, show normal operating schedule.)				
	Process Time Frame			Specify Units
Material	Hour	Week	Year	(tons, Btu, Gal., etc)
Condensate	3.64	612	31,847	bbl

Generally describe all applicable requirements.					
Regulations (i.e. SIP, NESHAP, PSD, NSPS, etc)	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements	Testing Requirements	Applicable Emission Standards (include units)
33-15-07-01.3 (Submerged Fill)	-	-	-	-	-

Has emissi	on unit testing been done a	t the facility? 🗌 Yes 🔳 No	
Emission Unit ID	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F – FUELS USED Not Applicable

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

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

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.							
	Amount		Basis of Estimate (AP-42, testing,				
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)				
VOC	0.67	2.94	ProMax Process Simulation + TANKS 4.0.9d				
n-Hexane	0.03	0.12	ProMax Process Simulation				
CO2e	1.22	5.33	ProMax Process Simulation				

Type:	Cyclone	Multiclone	Baghouse	🗌 EI	ectrostatic Precipitator		
	U Wet Scrubber		None				
	Other – Specing	_{fy:} <u>Vapor Recov</u>	ery Unit				
Name of N	Manufacturer	Model Num	ber		Date to Be Installed		
1	n: 🗌 Boiler	🗌 Kiln	Engine				
Other -	– _{Specify:} Conde	ensate Storage	Tanks				
Pollutants	Removed	VOCs					
Design Ef	ficiency (%)	100					

Operating Efficiency (%)	95*			
Describe method used to dete	ermine operating efficie	ency:		
Manufacturer specifica	ations.			
*Operating efficiency i 5% downtime for main	s based on the V	RU being 100%	efficient when op	erating and a

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



NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

Emission Point Number:

SECTION A – EQUIPMENT INFORMATION Type of Unit or Process (rotary dryer, cupola furnace, crusher, pelletizer, engine, etc.) Emission Unit Number:

crusher, pelletizer, engine, etc.)		
Storage Tank	TK-4	TK-4
Make	Model	Installation or manufacture date
-	-	2019
Capacity (manufacturer's or designer's guaranteed	Operating Capacity (specific	units)
maximum)	400-bbl	
Brief description of operation of unit or process:		
Condensate storage tank		
-		
Drief description of alternative energting econorie (acc	Alternative Emission Point:	
Brief description of alternative operating scenario (see Section M1 & M2 to elaborate):		
None	None	

SECTION B -OPERATING SCHEDULE

Are you agreeing to a limit on the operating schedule for this unit? Yes INo					
Hours Per Day	Days Per Week	Weeks Per Year	Peak Production	Dates of Annual	
	_		Season (if any)	Shutdown	
24	7	52	N/A	N/A	

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes No (If No, show normal operating schedule.)						
	P	rocess Time Fram	e	Specify Units		
Material	Hour	Week	Year	(tons, Btu, Gal., etc)		
Condensate	3.64	612	31,847	bbl		

Generally describe all applicable requirements.								
Regulations (i.e. SIP, NESHAP, PSD, NSPS, etc)	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements	Testing Requirements	Applicable Emission Standards (include units)			
33-15-07-01.3 (Submerged Fill)	-	-	-	-	-			

Has emissi	on unit testing been done a	t the facility? 🗌 Yes 🔳 No	
Emission Unit ID	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F – FUELS USED Not Applicable

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

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

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.						
	Amount		Basis of Estimate (AP-42, testing,			
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)			
VOC	0.67	2.94	ProMax Process Simulation + TANKS 4.0.9d			
n-Hexane	0.03	0.12	ProMax Process Simulation			
CO2e	1.22	5.33	ProMax Process Simulation			

Type:	Cyclone	Multiclone	Baghouse	🗌 EI	ectrostatic Precipitator			
	U Wet Scrubber		None					
	Other - Specify: Vapor Recovery Unit							
Name of N	Name of Manufacturer Model Number Date to Be Installed							
1	n: 🗌 Boiler	🗌 Kiln	Engine					
Other -	– _{Specify:} Conde	ensate Storage	Tanks					
Pollutants	Removed	VOCs						
Design Ef	ficiency (%)	100						

Operating Efficiency (%)	95*			
Describe method used to dete	ermine operating efficie	ency:		
Manufacturer specifica	ations.			
*Operating efficiency i 5% downtime for main	s based on the V	RU being 100%	efficient when op	erating and a

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



NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A – EQUIPMENT INFORMATION

Type of Unit or Process (rotary dryer, cupola furnace, crusher, pelletizer, engine, etc.)	Emission Unit Number:	Emission Point Number:	
Storage Tank	TK-5	TK-5	
Make	Model	Installation or manufacture date	
-	-	2019	
Capacity (manufacturer's or designer's guaranteed	Operating Capacity (specific units)		
maximum)	400-bbl		
Brief description of operation of unit or process:			
Condensate storage tank			
Brief description of alternative operating scenario (see Section M1 & M2 to elaborate):	Alternative Emission Point:		
None	None		

SECTION B - OPERATING SCHEDULE

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

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes No (If No, show normal operating schedule.)						
	Pi	rocess Time Fram	e	Specify Units		
Material	Hour	Week	Year	(tons, Btu, Gal., etc)		
Condensate	3.64	612	31,847	bbl		

Generally describe all applicable requirements.							
Regulations (i.e. SIP, NESHAP, PSD, NSPS, etc)	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements	Testing Requirements	Applicable Emission Standards (include units)		
33-15-07-01.3 (Submerged Fill)	-	-	-	-	-		

Has emissi	Has emission unit testing been done at the facility? 🗌 Yes 🔳 No							
Emission Unit ID	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)					

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F – FUELS USED Not Applicable

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

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

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.							
	Amount		Basis of Estimate (AP-42, testing,				
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)				
VOC	0.67	2.94	ProMax Process Simulation + TANKS 4.0.9d				
n-Hexane	0.03	0.12	ProMax Process Simulation				
CO2e	1.22	5.33	ProMax Process Simulation				

Type:	Cyclone	Multiclone	Baghouse	🗌 EI	ectrostatic Precipitator			
	U Wet Scrubber		None					
	Other – Specing	_{fy:} <u>Vapor Recov</u>	ery Unit					
Name of N	Name of Manufacturer Model Number Date to Be Installed							
1	n: 🗌 Boiler	🗌 Kiln	Engine					
Other -	– _{Specify:} Conde	ensate Storage	Tanks					
Pollutants	Removed	VOCs						
Design Ef	ficiency (%)	100						

Operating Efficiency (%)	95*						
Describe method used to determine operating efficiency:							
Manufacturer specifica	ations.						
*Operating efficiency i 5% downtime for main	s based on the V	RU being 100%	efficient when op	erating and a			

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



NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A – EQUIPMENT INFORMATION

Type of Unit or Process (rotary dryer, cupola furnace, crusher, pelletizer, engine, etc.)	Emission Unit Number:	Emission Point Number:
Storage Tank	TK-6	TK-6
Make	Model	Installation or manufacture date
-	-	2019
Capacity (manufacturer's or designer's guaranteed	Operating Capacity (specific	units)
maximum)	400-bbl	
Brief description of operation of unit or process:		
Condensate storage tank		
Brief description of alternative operating scenario (see Section M1 & M2 to elaborate):	Alternative Emission Point:	
None	None	

SECTION B - OPERATING SCHEDULE

Are you agreeing to a limit on the operating schedule for this unit? Yes						
Hours Per Day	Days Per Week	Weeks Per Year	Peak Production	Dates of Annual		
	-	50	Season (if any)	Shutdown		
24	1	52	N/A	N/A		

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes INo (If No, show normal operating schedule.)						
	Pi	rocess Time Fram	e	Specify Units		
Material	Hour	Week	Year	(tons, Btu, Gal., etc)		
Condensate	3.64	612	31,847	bbl		

Generally describe all applicable requirements.						
Regulations (i.e. SIP, NESHAP, PSD, NSPS, etc)	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements	Testing Requirements	Applicable Emission Standards (include units)	
33-15-07-01.3 (Submerged Fill)	-	-	-	-	-	

Has emissi	on unit testing been done a	t the facility? 🗌 Yes 🔳 No	
Emission Unit ID	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F – FUELS USED Not Applicable

Coal (Tons/Yr)	% Sulfur	% Ash	Oil (Gal/Yr)	% Sulfur	Grade No.
Natural Gas (Tho	ousand CF/Yr)	LP Gas (Gal/Yr)		Other (\$	Specify)

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

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.					
	Am	ount	Basis of Estimate (AP-42, testing,		
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)		
VOC	0.67	2.94	ProMax Process Simulation + TANKS 4.0.9d		
n-Hexane	0.03	0.12	ProMax Process Simulation		
CO2e	1.22	5.33	ProMax Process Simulation		

Type:	Cyclone	Multiclone	Baghouse	🗌 EI	ectrostatic Precipitator			
	U Wet Scrubber		None					
	Other – Specify: Vapor Recovery Unit							
Name of N	Name of Manufacturer Model Number Date to Be Installed							
1	n: 🗌 Boiler	🗌 Kiln	Engine					
Other -	– _{Specify:} Conde	ensate Storage	Tanks					
Pollutants	Removed	VOCs						
Design Ef	ficiency (%)	100						

Operating Efficiency (%)	95*					
Describe method used to determine operating efficiency:						
Manufacturer specifica	ations.					
*Operating efficiency i 5% downtime for main	s based on the V	RU being 100%	efficient when op	erating and a		

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



NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A – EQUIPMENT INFORMATION

Type of Unit or Process (rotary dryer, cupola furnace, crusher, pelletizer, engine, etc.)	Emission Unit Number:	Emission Point Number:	
Storage Tank	TK-7	TK-7	
Make	Model	Installation or manufacture date	
-	-	2019	
Capacity (manufacturer's or designer's guaranteed	Operating Capacity (specific units)		
maximum)	400-bbl		
Brief description of operation of unit or process:			
Condensate storage tank			
Brief description of alternative operating scenario (see Section M1 & M2 to elaborate):	Alternative Emission Point:		
None	None		

SECTION B - OPERATING SCHEDULE

Are you agreeing to a limit on the operating schedule for this unit? Yes						
Hours Per Day	Days Per Week	Weeks Per Year	Peak Production	Dates of Annual		
	_		Season (if any)	Shutdown		
24	7	52	N/A	N/A		

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes No (If No, show normal operating schedule.)						
	P	rocess Time Fram	e	Specify Units		
Material	Hour	Week	Year	(tons, Btu, Gal., etc)		
Condensate	3.64	612	31,847	bbl		

Generally describe a	Generally describe all applicable requirements.							
Regulations (i.e. SIP, NESHAP, PSD, NSPS, etc)	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements	Testing Requirements	Applicable Emission Standards (include units)			
33-15-07-01.3 (Submerged Fill)	-	-	-	-	-			

Has emissi	on unit testing been done a	t the facility? 🗌 Yes 🔳 No	
Emission Unit ID	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F – FUELS USED Not Applicable

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

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

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.							
	Am	ount	Basis of Estimate (AP-42, testing,				
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)				
VOC	0.67	2.94	ProMax Process Simulation + TANKS 4.0.9d				
n-Hexane	0.03	0.12	ProMax Process Simulation				
CO2e	1.22	5.33	ProMax Process Simulation				

Type:	Cyclone	Multiclone	Baghouse	🗌 EI	ectrostatic Precipitator			
	U Wet Scrubber		None					
	Other – Specir	_{fy:} <u>Vapor Recov</u>	ery Unit					
Name of N	Manufacturer	Model Num	ber		Date to Be Installed			
1	n: 🗌 Boiler	🗌 Kiln	Engine					
Other -	– _{Specify:} Conde	ensate Storage	Tanks					
Pollutants	Removed	VOCs						
Design Ef	ficiency (%)	100						

Operating Efficiency (%)	95*			
Describe method used to dete	ermine operating efficie	ency:		
Manufacturer specifica	ations.			
*Operating efficiency i 5% downtime for main	s based on the V	RU being 100%	efficient when op	erating and a

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



NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A – EQUIPMENT INFORMATION

Type of Unit or Process (rotary dryer, cupola furnace, crusher, pelletizer, engine, etc.)	Emission Unit Number:	Emission Point Number:
Storage Tank	TK-8	TK-8
Make	Model	Installation or manufacture date
-	-	2019
Capacity (manufacturer's or designer's guaranteed	Operating Capacity (specific	units)
maximum)	400-bbl	
Brief description of operation of unit or process:		
Condensate storage tank		
Brief description of alternative operating scenario (see Section M1 & M2 to elaborate):	Alternative Emission Point:	
None	None	

SECTION B - OPERATING SCHEDULE

Are you agreeing to a limit on the operating schedule for this unit? Yes No						
Hours Per Day	Days Per Week	Weeks Per Year	Peak Production	Dates of Annual		
			Season (if any)	Shutdown		
24	1	52	N/A	N/A		

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes No (If No, show normal operating schedule.)						
	Pi	rocess Time Fram	Specify Units			
Material	Hour	Week	Year	(tons, Btu, Gal., etc)		
Condensate	3.64	612	31,847	bbl		

Generally describe all applicable requirements.							
Regulations (i.e. SIP, NESHAP, PSD, NSPS, etc)	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements	Testing Requirements	Applicable Emission Standards (include units)		
33-15-07-01.3 (Submerged Fill)	-	-	-	-	-		

Has emissi	Has emission unit testing been done at the facility?						
Emission Unit ID	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)				

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F – FUELS USED Not Applicable

Coal (Tons/Yr)	% Sulfur	% Ash	Oil (Gal/Yr)	% Sulfur	Grade No.		
Natural Gas (Tho	ousand CF/Yr)	LP Gas	(Gal/Yr)	Other (\$	Specify)		

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

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.							
	Am	ount	Basis of Estimate (AP-42, testing,				
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)				
VOC	0.67	2.94	ProMax Process Simulation + TANKS 4.0.9d				
n-Hexane	0.03	0.12	ProMax Process Simulation				
CO2e	1.22	5.33	ProMax Process Simulation				

Type:	Cyclone	Multiclone	Baghouse	🗌 EI	ectrostatic Precipitator
	U Wet Scrubber		None		
	Other – Specir	_{fy:} <u>Vapor Recov</u>	ery Unit		
Name of N	Manufacturer	Model Num	ber		Date to Be Installed
1	n: 🗌 Boiler	🗌 Kiln	Engine		
Other -	– _{Specify:} Conde	ensate Storage	Tanks		
Pollutants	Removed	VOCs			
Design Ef	ficiency (%)	100			

Operating Efficiency (%)	95*					
Describe method used to determine operating efficiency:						
Manufacturer specifica	ations.					
*Operating efficiency i 5% downtime for main	s based on the V	RU being 100%	efficient when op	erating and a		

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



NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A – EQUIPMENT INFORMATION

Type of Unit or Process (rotary dryer, cupola furnace, crusher, pelletizer, engine, etc.)	Emission Unit Number:	Emission Point Number:
Storage Tank	TK-9	TK-9
Make	Model	Installation or manufacture date
-	-	2019
Capacity (manufacturer's or designer's guaranteed maximum)	Operating Capacity (specific	units)
	400-bbl	
Brief description of operation of unit or process:		
Condensate storage tank		
Brief description of alternative operating scenario (see Section M1 & M2 to elaborate):	Alternative Emission Point:	
None	None	

SECTION B - OPERATING SCHEDULE

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

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes No (If No, show normal operating schedule.)					
	Process Time Frame			Specify Units	
Material	Hour	Week	Year	(tons, Btu, Gal., etc)	
Condensate	3.64	612	31,847	bbl	

Generally describe all applicable requirements.							
Regulations (i.e. SIP, NESHAP, PSD, NSPS, etc)	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements	Testing Requirements	Applicable Emission Standards (include units)		
33-15-07-01.3 (Submerged Fill)	-	-	-	-	-		

Has emissi	on unit testing been done a	t the facility? 🗌 Yes 🔳 No	
Emission Unit ID	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F – FUELS USED Not Applicable

Coal (Tons/Yr)	% Sulfur	% Ash	Oil (Gal/Yr)	% Sulfur	Grade No.			
Natural Gas (Tho	ousand CF/Yr)	LP Gas	(Gal/Yr)	Other (\$	Specify)			

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

SECTION H – ALTERNATIVE STACK PARAMETERS

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rat	Known or Suspected - Use emission rates after control equipment.							
	Am	ount	Basis of Estimate (AP-42, testing,					
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)					
VOC	0.67	2.94	ProMax Process Simulation + TANKS 4.0.9d					
n-Hexane	0.03	0.12	ProMax Process Simulation					
CO2e	1.22	5.33	ProMax Process Simulation					

SECTION J1 - AIR POLLUTION CONTROL EQUIPMENT

Type:	Cyclone	Multiclone	Baghouse	🗌 EI	ectrostatic Precipitator			
	U Wet Scrubber		None					
	Other – Specing	_{fy:} <u>Vapor Recov</u>	ery Unit					
Name of N	Name of Manufacturer Model Number Date to Be Installed							
1	n: 🗌 Boiler	🗌 Kiln	Engine					
Other -	– _{Specify:} Conde	ensate Storage	Tanks					
Pollutants	Removed	VOCs						
Design Ef	ficiency (%)	100						

Operating Efficiency (%)	95*			
Describe method used to dete	ermine operating efficie	ency:		
Manufacturer specifica	ations.			
*Operating efficiency i 5% downtime for main	s based on the V	RU being 100%	efficient when op	erating and a

SECTION J2 – GAS CONDITIONS

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



EMISSION UNIT FOR TITLE V PERMIT TO OPERATE

NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A – EQUIPMENT INFORMATION

Type of Unit or Process (rotary dryer, cupola furnace, crusher, pelletizer, engine, etc.)	Emission Unit Number:	Emission Point Number:
Storage Tank	TK-10	TK-10
Make	Model	Installation or manufacture date
-	-	2019
Capacity (manufacturer's or designer's guaranteed	Operating Capacity (specific	units)
maximum)	400-bbl	
Brief description of operation of unit or process:		
Condensate storage tank		
Brief description of alternative operating scenario (see Section M1 & M2 to elaborate):	Alternative Emission Point:	
None	None	

SECTION B - OPERATING SCHEDULE

Are you agreeing to a limit on the operating schedule for this unit? Yes INo						
Hours Per Day	Hours Per Day Days Per Week Weeks Per Year Peak Production Dates of Annual					
	_		Season (if any)	Shutdown		
24	7	52	N/A	N/A		

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes No (If No, show normal operating schedule.)						
	Pi	rocess Time Fram	e	Specify Units		
Material	Hour	Week	Year	(tons, Btu, Gal., etc)		
Condensate	3.64	612	31,847	bbl		

SECTION D1 – APPLICABLE REQUIREMENTS

Generally describe a	Generally describe all applicable requirements.						
Regulations (i.e. SIP, NESHAP, PSD, NSPS, etc)	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements	Testing Requirements	Applicable Emission Standards (include units)		
33-15-07-01.3 (Submerged Fill)	-	-	-	-	-		

SECTION D2 – IDENTIFICATION OF AIR CONTAMINANTS

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

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F – FUELS USED Not Applicable

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

SECTION G – STACK PARAMETERS Not Applicable - fugitive source

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

SECTION H – ALTERNATIVE STACK PARAMETERS

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.							
	Amount		Basis of Estimate (AP-42, testing,				
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)				
VOC	0.67	2.94	ProMax Process Simulation + TANKS 4.0.9d				
n-Hexane	0.03	0.12	ProMax Process Simulation				
CO2e	1.22	5.33	ProMax Process Simulation				

SECTION J1 - AIR POLLUTION CONTROL EQUIPMENT

Type:	Cyclone	Multiclone	Baghouse	🗌 EI	ectrostatic Precipitator
	U Wet Scrubber		None		
	Other – Specir	_{fy:} <u>Vapor Recov</u>	ery Unit		
Name of N	Manufacturer	Model Num	ber		Date to Be Installed
1	n: 🗌 Boiler	🗌 Kiln	Engine		
Other -	– _{Specify:} Conde	ensate Storage	Tanks		
Pollutants	Removed	VOCs			
Design Ef	ficiency (%)	100			

Operating Efficiency (%)	95*				
Describe method used to determine operating efficiency:					
Manufacturer specifica	ations.				
*Operating efficiency i 5% downtime for main	s based on the V	RU being 100%	efficient when op	erating and a	

SECTION J2 – GAS CONDITIONS

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



EMISSION UNIT FOR TITLE V PERMIT TO OPERATE

NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A - EQUIPMENT INFORMATION

Type of Unit or Process (rotary dryer, cupola furnace, crusher, pelletizer, engine, etc.)	Emission Unit Number:	Emission Point Number:
Storage Tank	VV I IX- I	VV I IX- I
Make	Model	Installation or manufacture date
-	-	2019
Capacity (manufacturer's or designer's guaranteed	Operating Capacity (specific	units)
maximum)	400-bbl	
Brief description of operation of unit or process:		
Produced Water storage tank		
Brief description of alternative operating scenario (see Section M1 & M2 to elaborate):	Alternative Emission Point:	
None	None	

SECTION B - OPERATING SCHEDULE

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

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes INo (If No, show normal operating schedule.)					
	P	rocess Time Fram	Specify Units		
Material	Hour	Week	Year	(tons, Btu, Gal., etc)	
Produced Water	3.97	668	34,750	bbl	

SECTION D1 – APPLICABLE REQUIREMENTS

Generally describe a	all applicable require	ments.			
Regulations (i.e. SIP, NESHAP, PSD, NSPS, etc)	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements	Testing Requirements	Applicable Emission Standards (include units)
33-15-07-01.3 (Submerged Fill)	-	-	-	-	-

SECTION D2 – IDENTIFICATION OF AIR CONTAMINANTS

Has emissi	on unit testing been done a	t the facility? 🗌 Yes 🔳 No	
Emission Unit ID	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F – FUELS USED Not Applicable

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

SECTION G – STACK PARAMETERS Not Applicable - fugitive source

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

SECTION H – ALTERNATIVE STACK PARAMETERS

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.						
	Amount		Basis of Estimate (AP-42, testing,			
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)			
VOC	0.18	0.81	ProMax Process Simulation + TANKS 4.0.9d			
n-Hexane	0.01	0.03	ProMax Process Simulation			
CO2e	0.33	1.45	ProMax Process Simulation			

SECTION J1 - AIR POLLUTION CONTROL EQUIPMENT

Type:	Cyclone		Multiclone	Baghouse	Electrostatic Precip	pitator
	Wet Scrubber		Spray Dryer	□ None		
	Other – Specif	y:				
Name of	Manufacturer		Model Num	ber	Date to Be Insta	lled
Applicatio	on: 🗌 Boiler		Kiln	Engine		
Other	– Specify:					
Pollutants	Removed					
Design E	fficiency (%)					

Operating Efficiency (%)			
Describe method used to dete	ermine operating efficie	ency:	
		-	

SECTION J2 – GAS CONDITIONS

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



EMISSION UNIT FOR TITLE V PERMIT TO OPERATE

NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A - EQUIPMENT INFORMATION

Type of Unit or Process (rotary dryer, cupola furnace, crusher, pelletizer, engine, etc.)		Emission Point Number:	
Storage Tank	WTK-2	WTK-2	
Make	Model	Installation or manufacture date	
-	-	2019	
Capacity (manufacturer's or designer's guaranteed	Operating Capacity (specific units)		
maximum)	400-bbl		
Brief description of operation of unit or process:			
Produced Water storage tank			
Brief description of alternative operating scenario (see Section M1 & M2 to elaborate):	Alternative Emission Point:		
None	None		

SECTION B - OPERATING SCHEDULE

Are you agreeing to a limit on the operating schedule for this unit? Yes INo				
Hours Per Day	Days Per Week	Weeks Per Year	Peak Production	Dates of Annual
	_		Season (if any)	Shutdown
24	7	52	N/A	N/A

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes No (If No, show normal operating schedule.)					
	Pi	rocess Time Fram	e	Specify Units	
Material	Hour	Week	Year	(tons, Btu, Gal., etc)	
Produced Water	3.97	668	34,750	bbl	

SECTION D1 – APPLICABLE REQUIREMENTS

Generally describe all applicable requirements.						
Regulations (i.e. SIP, NESHAP, PSD, NSPS, etc)	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements	Testing Requirements	Applicable Emission Standards (include units)	
33-15-07-01.3 (Submerged Fill)	-	-	-	-	-	

SECTION D2 – IDENTIFICATION OF AIR CONTAMINANTS

Has emissi	Has emission unit testing been done at the facility? Yes No						
Emission Unit ID	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)				

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F – FUELS USED Not Applicable

Coal (Tons/Yr)	% Sulfur	% Ash	Oil (Gal/Yr)	% Sulfur	Grade No.
Natural Gas (Tho	ousand CF/Yr)	LP Gas	(Gal/Yr)	Other (\$	Specify)

SECTION G – STACK PARAMETERS Not Applicable - fugitive source

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

SECTION H – ALTERNATIVE STACK PARAMETERS

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.						
	Amount		Basis of Estimate (AP-42, testing,			
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)			
VOC	0.18	0.81	ProMax Process Simulation + TANKS 4.0.9d			
n-Hexane	0.01	0.03	ProMax Process Simulation			
CO2e	0.33	1.45	ProMax Process Simulation			

SECTION J1 - AIR POLLUTION CONTROL EQUIPMENT

Type:	Cyclone		Multiclone	Baghouse	Electrostatic Precip	pitator
	Wet Scrubber		Spray Dryer	□ None		
	Other – Specif	y:				
Name of	Manufacturer		Model Num	ber	Date to Be Insta	lled
Applicatio	on: 🗌 Boiler		Kiln	Engine		
0ther	– Specify:					
Pollutants	Removed					
Design E	fficiency (%)					

Operating Efficiency (%)			
Describe method used to dete	ermine operating efficie	ency:	
		-	

SECTION J2 – GAS CONDITIONS

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



EMISSION UNIT FOR TITLE V PERMIT TO OPERATE

NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A - EQUIPMENT INFORMATION Type of Unit or Process (rotary dryer, cupola furnace, Emission Unit Number: Emission Point Number: crusher, pelletizer, engine, etc.) TL-1 TL-1 Truck Loading Make Model Installation or manufacture date _ _ Capacity (manufacturer's or designer's guaranteed Operating Capacity (specific units) maximum) Brief description of operation of unit or process: Condensate Truck Loading

 Brief description of alternative operating scenario (see Section M1 & M2 to elaborate):
 Alternative Emission Point:

 None
 None

SECTION B -OPERATING SCHEDULE

Are you agreeing to a limit on the operating schedule for this unit? Yes INo					
Hours Per Day	Days Per Week	Weeks Per Year	Peak Production	Dates of Annual	
			Season (if any)	Shutdown	
24	7	52	N/A	N/A	

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes No (If No, show normal operating schedule.)						
	Pi	rocess Time Fram	е	Specify Units		
Material	Hour	Week	Year	(tons, Btu, Gal., etc)		
Condensate	36.4	6,125	318,476	bbl		

SECTION D1 – APPLICABLE REQUIREMENTS

Generally describe a	all applicable require	ments.			
Regulations (i.e. SIP, NESHAP, PSD, NSPS, etc)	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements	Testing Requirements	Applicable Emission Standards (include units)
-	-	-	-	-	-

SECTION D2 – IDENTIFICATION OF AIR CONTAMINANTS

Has emissi	Has emission unit testing been done at the facility? Yes No							
Emission Unit ID	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)					

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F – FUELS USED Not Applicable

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

SECTION G – STACK PARAMETERS Not Applicable - fugitive source

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

SECTION H – ALTERNATIVE STACK PARAMETERS

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.							
	Amount		Basis of Estimate (AP-42, testing,				
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)				
VOC	4.57	20.00	Promax				

SECTION J1 – AIR POLLUTION CONTROL EQUIPMENT

Type:	Cyclone		Multiclone	Baghouse	Electrostatic Preci	pitator
	U Wet Scrubber		Spray Dryer	□ None		
	Other – Specify	/:				
Name of	Manufacturer		Model Num	ber	Date to Be Insta	lled
Applicatio	on: 🗌 Boiler		Kiln	Engine		
Other	– Specify:					
Pollutants	s Removed					
Design E	fficiency (%)					

Operating Efficiency (%)			
Describe method used to dete	ermine operating efficie	ency:	

SECTION J2 – GAS CONDITIONS

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



EMISSION UNIT FOR TITLE V PERMIT TO OPERATE

NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A – EQUIPMENT INFORMATION				
Type of Unit or Process (rotary dryer, cupola furnace,	Emission Unit Number:	Emission Point Number:		
crusher, pelletizer, engine, etc.)	FUG	FUG		
Fugitive Components	100	100		
Make	Model	Installation or manufacture date		
-	-	2019		
Capacity (manufacturer's or designer's guaranteed	Operating Capacity (specific units)			
maximum)	-			
Brief description of operation of unit or process:				
Fugitive components subject to OOOOa				
Brief description of alternative operating scenario (see Section M1 & M2 to elaborate):	Alternative Emission Point:			
None	None			

SECTION B - OPERATING SCHEDULE

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

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS) Not Applicable

Are you agreeing to a limit on the production for this unit? Yes No (If No, show normal operating schedule.)						
	Pi	rocess Time Fram	Specify Units			
Material	Hour	Week	Year	(tons, Btu, Gal., etc)		

SECTION D1 – APPLICABLE REQUIREMENTS

Generally describe all applicable requirements.							
Regulations (i.e. SIP, NESHAP, PSD, NSPS, etc)	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements	Testing Requirements	Applicable Emission Standards (include units)		
NSPS OOOOa	Leak monitoring	Date and location of leak	Initial notification	OGI Monitoring	N/A		
		Date and method of leak repair	Startup notification				
		Reports and notifications	Semiannual reports				

SECTION D2 – IDENTIFICATION OF AIR CONTAMINANTS

Has emission	Has emission unit testing been done at the facility?								
Emission Unit ID	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)						
FUG	8/23/2023	Quarterly, reports submitted annual	NSPS OOOOa						

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F – FUELS USED Not Applicable

Coal (Tons/Yr)	% Sulfur	% Ash	Oil (Gal/Yr)	% Sulfur	Grade No.			
Natural Gas (Tho	ousand CF/Yr)	LP Gas	(Gal/Yr)	Other (Specify)			

SECTION G – STACK PARAMETERS Not Applicable - fugitive source

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

SECTION H – ALTERNATIVE STACK PARAMETERS

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.							
	Amount		Basis of Estimate (AP-42, testing,				
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)				
VOC	2.52	11.02	EPA-435/R-95-017				
n-Hexane	0.24	1.04	EPA-435/R-95-017				

SECTION J1 – AIR POLLUTION CONTROL EQUIPMENT

Type:	Cyclone	Multiclone	Baghouse	ectrostatic Precip	bitator
	Wet Scrubber	Spray Dryer	None		
	Other – Specif	īy:			
Name of I	Manufacturer	Model Num	ber	Date to Be Instal	led
Applicatio	on: 🗌 Boiler	🗌 Kiln	Engine		
Other	– Specify:				
Pollutants	Removed				
Design Et	fficiency (%)				

Operating Efficiency (%)			
Describe method used to dete	ermine operating efficie	ency:	

SECTION J2 – GAS CONDITIONS

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



EMISSION UNIT FOR TITLE V PERMIT TO OPERATE

NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 61006 (3-2019)

SECTION A – EQUIPMENT INFORMATION Type of Unit or Process (rotary dryer, cupola furnace, crusher, pelletizer, engine, etc.) Emission Unit Number: Vents and Blowdowns

Vents and Blowdowns	DD	טט
Make	Model -	Installation or manufacture date
Capacity (manufacturer's or designer's guaranteed maximum)	Operating Capacity (specific	units)

Emission Point Number:

DD

Brief description of operation of unit or process:

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.

Brief description of alternative operating scenario (see	Alternative Emission Point:
Section M1 & M2 to elaborate):	
None	None

SECTION B -OPERATING SCHEDULE

Are you agreeing to a limit on the operating schedule for this unit? Yes No						
Hours Per Day	Days Per Week	Weeks Per Year	Peak Production	Dates of Annual		
~ ~			Season (if any)	Shutdown		
24	1	52	N/A	N/A		

SECTION C – PRODUCTION RATES (THROUGHPUT LIMITS)

Are you agreeing to a limit on the production for this unit? Yes No (If No, show normal operating schedule.)						
	Pi	rocess Time Fram	e	Specify Units		
Material	Hour	Week	Year	(tons, Btu, Gal., etc)		
Natural gas	-	-	0.468	MMSCF		

SECTION D1 - APPLICABLE REQUIREMENTS

Generally describe a	Generally describe all applicable requirements.					
Regulations (i.e. SIP, NESHAP, PSD, NSPS, etc)	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements	Testing Requirements	Applicable Emission Standards (include units)	
33.1-15-07-02.1 (Gas disposal)						

SECTION D2 – IDENTIFICATION OF AIR CONTAMINANTS

Has emissi	Has emission unit testing been done at the facility? Yes No						
Emission Unit ID	Last Date when a Testing Program was Completed	If Program is Continuous, Give Approximate Testing Frequency	Regulation requiring frequency (NSPS, MACT, Permit Requirement-list permit number)				

Add additional pages if necessary

SECTION E – PRODUCTS OF UNIT OR PROCESS

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

SECTION F – FUELS USED Not Applicable

Coal (Tons/Yr)	% Sulfur	% Ash	Oil (Gal/Yr)	% Sulfur	Grade No.
Natural Gas (Tho	ousand CF/Yr)	LP Gas	(Gal/Yr)	Other (\$	Specify)

SECTION G – STACK PARAMETERS Not Applicable - fugitive source

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

SECTION H – ALTERNATIVE STACK PARAMETERS

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

SECTION I – AIR CONTAMINANTS EMITTED

Known or Suspected - Use emission rates after control equipment.				
	Amount		Basis of Estimate (AP-42, testing,	
Pollutant (use CAS for HAPs)	Pounds/Hr	Tons/Yr	engineering estimate, etc)	
VOC	-	5.06	Mass Balance	

SECTION J1 – AIR POLLUTION CONTROL EQUIPMENT

Type:	Cyclone	Multiclone	Baghouse	E	Electrostatic Precip	pitator
	U Wet Scrubber	Spray Dryer	None			
	Other – Specify	y:				
Name of	Manufacturer	Model Nun	nber		Date to Be Insta	lled
Applicatio	on: 🗌 Boiler	🗌 Kiln	Engine			
Other	– Specify:					
Pollutants	Removed					
Design Et	fficiency (%)					

Operating Efficiency (%)			
Describe method used to dete	ermine operating efficie	ency:	

SECTION J2 – GAS CONDITIONS

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

NORT DIVIS	PLIANCE SCHEDULE AND PL H DAKOTA DEPARTMENT OF ENVIF ON OF AIR QUALITY 008 (3-2019)	AN FOR TITLE V PERMIT TO OPERATE RONMENTAL QUALITY
C-1 - Co	ompressor Engine	
	LIANCE SCHEDULE AND PLAN	
Will your facility be in c	ompliance with all applicable requirements	effective at the time of permit issuance?
If No, identify applicable	e requirement for which compliance is not a	achieved:
If No. provide a narrativ	e description of how compliance will be ach	hieved with this applicable requirement:
If No. provide a detailed	I schedule of compliance:	
Regulation/Conditio	n not in	
compliance wi		Date Expected
Frequency for submitta	of progress reports	Starting Date of Progress Reports
(6-month minimum):		

SECTION A2 – COMPLIANCE SCHEDULE AND PLAN					
Will your facility be in compliance with all applicable requirements effective after the time of permit issuance?					
If No, identify applicable requirement for which compliance will not be compiled with:					
If No, provide a detailed schedule le	ading to compliance:				
Regulation/Condition not in compliance with	Action	Date Expected			

SECTION A3 – COMPLIANCE CERTIFICATION (METHOD OF COMPLIANCE) Compliance Method Type Compliance Method is Based On:				
	Compliance Assurance Monitoring (CAM)			
Recordkeeping	Applicable Requirement			
Gap-Filling Requirement				
SECTION A4 –METHOD OF COMPLIANCE REFERENCE TEST METHOD				

Reference Test Method: Method 1, Method 320, and/or ASTM D 6348-03 for NOx, CO and VOC; Method 9 for Opacity

Reference Test Method Citation:

40 CFR 60.4244; NDAC 33.1-15-03-05

SECTION A5 –METHOD OF COMPLIANCE MONITORING				
Monitoring Device Type:		Monitor Location Description:		
Stack Test	Parameter Monitoring	Stack Outlet		
□СЕМ	Ambient Monitoring			
Re	gulated Air Pollutant(s) Monitored:	Monitoring frequency and duration of sampling: (Example: every 15 min, 1 min instantaneous readings are taken to produce an hourly average.)		
	NOx, CO, VOC	Every 8,760 operating hours or 3 years		
Opacity/Visible Emissions		Periodic observations for 60 minute periods		

SECTION B1 – METHOD OF COMPLIANCE RECORDKEEPING

Data (Parameter) Being Recorded	Frequency of Reporting (6 mo, quarterly, etc.)
Records of engine maintenance	Report deviations with each semiannual monitoring report
Records of NSPS JJJJ test results	Submit test report within 60 days
Records of notifications made	Initial within 30 days, test notification 30 days prior
Records of operating hours	Report deviations with each semiannual monitoring report
Presence of visible emissions	With each semiannual monitoring report

SECTION B2 -METHOD OF COMPLIANCE REPORTING

Data (Parameter) Being Recorded	Beginning Date (month/day/year)	Frequency of Reporting (6 mo, quarterly, etc.)
Maintenance records	Upon maintenance activity	Report deviations with each semiannual monitoring report
NSPS JJJJ test results	Within 180 days of startup	Submit test report within 60 days
Initial JJJJ notification/JJJJ test notification	Within 30 days of construction commencement/30 days prior	One time/Every 8,760 operating hours or 3 years
Operating hours	Upon startup	Report deviations with each semiannual monitoring report
Frequency of visible emissions	Upon startup	With each semiannual monitoring report

SECTION B3 - COMPLIANCE CERTIFICATION

Certification Parameter	Beginning Date (month/day/year)	Frequency of Submittal (6 mo, quarterly, etc.)	
All applicable requirements	With this submittal and 45 days after 12/31 of the year permit issued	Annual	
The air contaminant source identified in this application is in compliance with applicable monitoring and compliance certification requirements? Yes Not Applicable NoDescribe Below:			

	-	E SCHEDULE AND PLAN FOR A DEPARTMENT OF ENVIRONMENT R QUALITY		OPERATE
NORTH D	C-2 - Compressor E	ngine		
SECTION A1	- COMPLIANCE SCI	HEDULE AND PLAN		
Will your facilit	y be in compliance w	ith all applicable requirements effective at	the time of permit issuance?	■Yes □No
If No, identify a	applicable requiremer	nt for which compliance is not achieved:		
If No, provide a	a narrative description	n of how compliance will be achieved with	this applicable requirement:	
	a detailed schedule o	f compliance:		
	/Condition not in liance with	Action	Date Exp	pected
Eroquopov for	submittal of progress	roports	Starting Date of Progress Rep	orte
(6-month minir		Teporto		00113

SECTION A2 – COMPLIANCE SCHEDULE AND PLAN				
Will your facility be in compliance with all applicable requirements effective after the time of permit issuance?				
If No, identify applicable requirement for which compliance will not be compiled with:				
If No, provide a detailed schedule le	ading to compliance:			
Regulation/Condition not in compliance with	Action	Date Expected		

SECTION A3 – COMPLIANCE CERTIFICATION (METHOD OF COMPLIANCE) Compliance Method Type Compliance Method is Based On:				
Monitoring	Compliance Assurance Monitoring (CAM)			
Recordkeeping	eping			
Gap-Filling Requirement				
SECTION A4 –METHOD OF COMPLIANCE REFERENCE TEST METHOD				

Reference Test Method:

Method 1, N	Method 320,	, and/or ASTM E) 6348-03 for NOx	, CO and VOC	; Method 9 for O	pacity
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Reference Test Method Citation:

40 CFR 60.4244; NDAC 33.1-15-03-05

SECTION A5 –METHOD OF COMPLIANCE MONITORING				
Monitoring Device Type:		Monitor Location Description:		
Stack Test	Parameter Monitoring	Stack Outlet		
□СЕМ	Ambient Monitoring			
Re	gulated Air Pollutant(s) Monitored:	Monitoring frequency and duration of sampling: (Example: every 15 min, 1 min instantaneous readings are taken to produce an hourly average.)		
	NOx, CO, VOC	Every 8,760 operating hours or 3 years		
Opacity/Visible Emissions		Periodic observations for 60 minute periods		

SECTION B1 – METHOD OF COMPLIANCE RECORDKEEPING

Data (Parameter) Being Recorded	Frequency of Reporting (6 mo, quarterly, etc.)
Records of engine maintenance	Report deviations with each semiannual monitoring report
Records of NSPS JJJJ test results	Submit test report within 60 days
Records of notifications made	Initial within 30 days, test notification 30 days prior
Records of operating hours	Report deviations with each semiannual monitoring report
Presence of visible emissions	With each semiannual monitoring report

SECTION B2 -METHOD OF COMPLIANCE REPORTING

Data (Parameter) Being Recorded	Beginning Date (month/day/year)	Frequency of Reporting (6 mo, quarterly, etc.)
Maintenance records	Upon maintenance activity	Report deviations with each semiannual monitoring report
NSPS JJJJ test results	Within 180 days of startup	Submit test report within 60 days
Initial JJJJ notification/JJJJ test notification	Within 30 days of construction commencement/30 days prior	One time/Every 8,760 operating hours or 3 years
Operating hours	Upon startup	Report deviations with each semiannual monitoring report
Frequency of visible emissions	Upon startup	With each semiannual monitoring report

SECTION B3 - COMPLIANCE CERTIFICATION

Certification Parameter	Beginning Date (month/day/year)	Frequency of Submittal (6 mo, quarterly, etc.)
All applicable requirements	With this submittal and 45 days after 12/31 of the year permit issued	Annual
The air contaminant source identified in this application is in compliance with applicable monitoring and compliance certification requirements? ■Yes □Not Applicable □NoDescribe Below:		

		E SCHEDULE AND PLAN FOR DEPARTMENT OF ENVIRONMENT QUALITY		DPERATE
VORTH D	-3 - Compressor En	gine		
		IEDULE AND PLAN		
Will your facility b	e in compliance wit	th all applicable requirements effective at	the time of permit issuance?	■Yes □No
				
If No, identify app	licable requirement	t for which compliance is not achieved:		
If No, provide a na	arrative description	of how compliance will be achieved with	this applicable requirement:	
	etailed schedule of	compliance:		
Regulation/Co compliar		Action	Date Exp	ected
Frequency for sub	bmittal of progress	reports	Starting Date of Progress Rep	orts
(6-month minimur		•		

SECTION A2 – COMPLIANCE SCHEDULE AND PLAN					
Will your facility be in compliance wi	Will your facility be in compliance with all applicable requirements effective after the time of permit issuance?				
If No, identify applicable requirement for which compliance will not be compiled with:					
If No, provide a detailed schedule le	ading to compliance:				
Regulation/Condition not in compliance with	Action	Date Expected			

SECTION A3 – COMPLIANCE CERTIFICATION (METHOD OF COMPLIANCE) Compliance Method Type Compliance Method is Based On:			
Monitoring	Compliance Assurance Monitoring (CAM)		
Recordkeeping	Applicable Requirement		
Gap-Filling Requirement			
SECTION A4 –METHOD OF COMPLIANCE REFERENCE TEST METHOD			

Reference Test Method:

Method 1, Method 320	, and/or ASTM D	6348-03 for NOx, CO	and VOC; Method 9	9 for Opacity
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Reference Test Method Citation:

40 CFR 60.4244; NDAC 33.1-15-03-05

SECTION A5 -I	METHOD OF COMPLIANCE MONITORING	
Monitoring Device Type:		Monitor Location Description:
Stack Test	Parameter Monitoring	Stack Outlet
□СЕМ	Ambient Monitoring	
Re	gulated Air Pollutant(s) Monitored:	Monitoring frequency and duration of sampling: (Example: every 15 min, 1 min instantaneous readings are taken to produce an hourly average.)
	NOx, CO, VOC	Every 8,760 operating hours or 3 years
0	pacity/Visible Emissions	Periodic observations for 60 minute periods

SECTION B1 – METHOD OF COMPLIANCE RECORDKEEPING

Data (Parameter) Being Recorded	Frequency of Reporting (6 mo, quarterly, etc.)
Records of engine maintenance	Report deviations with each semiannual monitoring report
Records of NSPS JJJJ test results	Submit test report within 60 days
Records of notifications made	Initial within 30 days, test notification 30 days prior
Records of operating hours	Report deviations with each semiannual monitoring report
Presence of visible emissions	With each semiannual monitoring report

SECTION B2 -METHOD OF COMPLIANCE REPORTING

Data (Parameter) Being Recorded	Beginning Date (month/day/year)	Frequency of Reporting (6 mo, quarterly, etc.)
Maintenance records	Upon maintenance activity	Report deviations with each semiannual monitoring report
NSPS JJJJ test results	Within 180 days of startup	Submit test report within 60 days
Initial JJJJ notification/JJJJ test notification	Within 30 days of construction commencement/30 days prior	One time/Every 8,760 operating hours or 3 years
Operating hours	Upon startup	Report deviations with each semiannual monitoring report
Frequency of visible emissions	Upon startup	With each semiannual monitoring report

SECTION B3 - COMPLIANCE CERTIFICATION

Certification Parameter	Beginning Date (month/day/year)	Frequency of Submittal (6 mo, quarterly, etc.)
All applicable requirements	With this submittal and 45 days after 12/31 of the year permit issued	Annual
The air contaminant source identified in this application is in compliance with applicable monitoring and compliance certification requirements? ■Yes □Not Applicable □NoDescribe Below:		

NORT DIVISI	PLIANCE SCHEDULE AND PLA H DAKOTA DEPARTMENT OF ENVIR ON OF AIR QUALITY 108 (3-2019)	AN FOR TITLE V PERMIT TO OPERATE RONMENTAL QUALITY
C-4 - Co	mpressor Engine	
SECTION A1 - COMPL	IANCE SCHEDULE AND PLAN	
Will your facility be in co	mpliance with all applicable requirements e	effective at the time of permit issuance? ■Yes □No
If No, identify applicable	requirement for which compliance is not a	chieved:
If No, provide a narrativ	e description of how compliance will be ach	nieved with this applicable requirement:
	schedule of compliance:	
Regulation/Conditio compliance wi		Date Expected
Frequency for submittal	of progress reports	Starting Date of Progress Reports
(6-month minimum):		

SECTION A2 – COMPLIANCE SCHEDULE AND PLAN					
Will your facility be in compliance wi	Will your facility be in compliance with all applicable requirements effective after the time of permit issuance?				
If No, identify applicable requirement for which compliance will not be compiled with:					
If No, provide a detailed schedule le	ading to compliance:				
Regulation/Condition not in compliance with	Action	Date Expected			

SECTION A3 – COMPLIANCE CERTIFICATION (METHOD OF COMPLIANCE)			
Compliance Method Type	Compliance Method is Based On:		
Monitoring	Compliance Assurance Monitoring (CAM)		
Recordkeeping	Applicable Requirement		
	Gap-Filling Requirement		
SECTION A4 –METHOD OF COMPLIANCE REFERENCE TEST METHOD			

Reference Test Method:

Method 1, Method 320, and/or ASTM D 6348-03 for NOx, CO and VOC; Method 9 for Opacity

Reference Test Method Citation:

40 CFR 60.4244; NDAC 33.1-15-03-05

SECTION A5 -I	METHOD OF COMPLIANCE MONITORING	
Monitoring Devi	се Туре:	Monitor Location Description:
Stack Test	Parameter Monitoring	Stack Outlet
□СЕМ	Ambient Monitoring	
Re	gulated Air Pollutant(s) Monitored:	Monitoring frequency and duration of sampling: (Example: every 15 min, 1 min instantaneous readings are taken to produce an hourly average.)
	NOx, CO, VOC	Every 8,760 operating hours or 3 years
0	pacity/Visible Emissions	Periodic observations for 60 minute periods

SECTION B1 – METHOD OF COMPLIANCE RECORDKEEPING

Data (Parameter) Being Recorded	Frequency of Reporting (6 mo, quarterly, etc.)
Records of engine maintenance	Report deviations with each semiannual monitoring report
Records of NSPS JJJJ test results	Submit test report within 60 days
Records of notifications made	Initial within 30 days, test notification 30 days prior
Records of operating hours	Report deviations with each semiannual monitoring report
Presence of visible emissions	With each semiannual monitoring report

SECTION B2 -METHOD OF COMPLIANCE REPORTING

Data (Parameter) Being Recorded	Beginning Date (month/day/year)	Frequency of Reporting (6 mo, quarterly, etc.)
Maintenance records	Upon maintenance activity	Report deviations with each semiannual monitoring report
NSPS JJJJ test results	Within 180 days of startup	Submit test report within 60 days
Initial JJJJ notification/JJJJ test notification	Within 30 days of construction commencement/30 days prior	One time/Every 8,760 operating hours or 3 years
Operating hours	Upon startup	Report deviations with each semiannual monitoring report
Frequency of visible emissions	Upon startup	With each semiannual monitoring report

SECTION B3 - COMPLIANCE CERTIFICATION

Certification Parameter	Beginning Date (month/day/year)	Frequency of Submittal (6 mo, quarterly, etc.)	
All applicable requirements	With this submittal and 45 days after 12/31 of the year permit issued	Annual	
The air contaminant source identified in this application is in compliance with applicable monitoring and compliance certification requirements? Yes Not Applicable NoDescribe Below:			

		E SCHEDULE AND PLAN FOR A DEPARTMENT OF ENVIRONMENT R QUALITY		OPERATE	
OF NORTH D	C-5 - Compressor Er	ıgine			
		HEDULE AND PLAN			
Will your facilit	y be in compliance w	ith all applicable requirements effective at	the time of permit issuance?	■Yes □No	
If No. identify a	applicable requiremen	nt for which compliance is not achieved:			
		it for which compliance is not achieved.			
If No, provide a	a narrative description	n of how compliance will be achieved with	this applicable requirement:		
	·····, p·······························				
	a detailed schedule o	f compliance:			
	ulation/Condition not in Action Date Expected		pected		
Frequency for (6-month minir	submittal of progress num):	reports	Starting Date of Progress Rep	ports	

SECTION A2 – COMPLIANCE SCHEDULE AND PLAN				
Will your facility be in compliance with all applicable requirements effective after the time of permit issuance?				
If No, identify applicable requirement for which compliance will not be compiled with:				
If No, provide a detailed schedule le	ading to compliance:			
Regulation/Condition not in compliance with	Action	Date Expected		

Compliance Method Type	Compliance Method is Based On:	
Monitoring	Compliance Assurance Monitoring (CAM)	
Recordkeeping	Applicable Requirement	
	Gap-Filling Requirement	

Reference Test Method:

Method 1, Method 320, and/or ASTM D 6348-03 for NOx, CO and VOC; Method 9 for Opacity

Reference Test Method Citation:

40 CFR 60.4244; NDAC 33.1-15-03-05

SECTION A5 -I	METHOD OF COMPLIANCE MONITORING	
Monitoring Devi	се Туре:	Monitor Location Description:
Stack Test	Parameter Monitoring	Stack Outlet
□СЕМ	Ambient Monitoring	
Re	gulated Air Pollutant(s) Monitored:	Monitoring frequency and duration of sampling: (Example: every 15 min, 1 min instantaneous readings are taken to produce an hourly average.)
	NOx, CO, VOC	Every 8,760 operating hours or 3 years
0	pacity/Visible Emissions	Periodic observations for 60 minute periods

SECTION B1 – METHOD OF COMPLIANCE RECORDKEEPING

Data (Parameter) Being Recorded	Frequency of Reporting (6 mo, quarterly, etc.)
Records of engine maintenance	Report deviations with each semiannual monitoring report
Records of NSPS JJJJ test results	Submit test report within 60 days
Records of notifications made	Initial within 30 days, test notification 30 days prior
Records of operating hours	Report deviations with each semiannual monitoring report
Presence of visible emissions	With each semiannual monitoring report

SECTION B2 -METHOD OF COMPLIANCE REPORTING

Data (Parameter) Being Recorded	Beginning Date (month/day/year)	Frequency of Reporting (6 mo, quarterly, etc.)
Maintenance records	Upon maintenance activity	Report deviations with each semiannual monitoring report
NSPS JJJJ test results	Within 180 days of startup	Submit test report within 60 days
Initial JJJJ notification/JJJJ test notification	Within 30 days of construction commencement/30 days prior	One time/Every 8,760 operating hours or 3 years
Operating hours	Upon startup	Report deviations with each semiannual monitoring report
Frequency of visible emissions	Upon startup	With each semiannual monitoring report

SECTION B3 - COMPLIANCE CERTIFICATION

Certification Parameter	Beginning Date (month/day/year)	Frequency of Submittal (6 mo, quarterly, etc.)	
All applicable requirements	With this submittal and 45 days after 12/31 of the year permit issued	Annual	
The air contaminant source identified in this application is in compliance with applicable monitoring and compliance certification requirements? Yes Not Applicable NoDescribe Below:			

		E SCHEDULE AND PLAN FOR A DEPARTMENT OF ENVIRONMENT R QUALITY		DPERATE
OF NORTH OF	C-6 - Compressor E	ngine		
SECTION A1	- COMPLIANCE SCI	HEDULE AND PLAN		
Will your facilit	y be in compliance w	ith all applicable requirements effective at	the time of permit issuance?	■Yes □No
If No_identify a	applicable requirement	nt for which compliance is not achieved:		
If No, provide a	a narrative description	n of how compliance will be achieved with	this applicable requirement:	
	a detailed schedule o	f compliance:		
	/Condition not in liance with	Action	Date Exp	pected
Frequency for (6-month minir	submittal of progress num):	reports	Starting Date of Progress Rep	ports

SECTION A2 – COMPLIANCE SCI	HEDULE AND PLAN	
Will your facility be in compliance w	ith all applicable requirements effective a	fter the time of permit issuance? ■Yes □No
If No, identify applicable requiremer	nt for which compliance will not be compile	ed with:
If No, provide a detailed schedule le	ading to compliance:	
Regulation/Condition not in compliance with	Action	Date Expected

SECTION A3 – COMPLIANCE CERTIFICATION (METHOD OF COMPLIANCE)				
Compliance Method Type	Compliance Method is Based On:			
Monitoring	Compliance Assurance Monitoring (CAM)			
Recordkeeping	Applicable Requirement			
	Gap-Filling Requirement			
SECTION A4 –METHOD OF COMPLIANCE REFERENCE TEST METHOD				

Reference Test Method:

Method 1, Method 320	, and/or ASTM D	6348-03 for NOx, CO	and VOC; Method 9	9 for Opacity
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Reference Test Method Citation:

40 CFR 60.4244; NDAC 33.1-15-03-05

SECTION A5 -I	METHOD OF COMPLIANCE MONITORING		
Monitoring Device Type:		Monitor Location Description:	
Stack Test Parameter Monitoring		Stack Outlet	
□СЕМ	Ambient Monitoring		
Re	gulated Air Pollutant(s) Monitored:	Monitoring frequency and duration of sampling: (Example: every 15 min, 1 min instantaneous readings are taken to produce an hourly average.)	
	NOx, CO, VOC	Every 8,760 operating hours or 3 years	
0	pacity/Visible Emissions	Periodic observations for 60 minute periods	

Data (Parameter) Being Recorded	Frequency of Reporting (6 mo, quarterly, etc.)
Records of engine maintenance	Report deviations with each semiannual monitoring report
Records of NSPS JJJJ test results	Submit test report within 60 days
Records of notifications made	Initial within 30 days, test notification 30 days prior
Records of operating hours	Report deviations with each semiannual monitoring report
Presence of visible emissions	With each semiannual monitoring report

SECTION B2 -METHOD OF COMPLIANCE REPORTING

Data (Parameter) Being Recorded	Beginning Date (month/day/year)	Frequency of Reporting (6 mo, quarterly, etc.)
Maintenance records	Upon maintenance activity	Report deviations with each semiannual monitoring report
NSPS JJJJ test results	Within 180 days of startup	Submit test report within 60 days
Initial JJJJ notification/JJJJ test notification	Within 30 days of construction commencement/30 days prior	One time/Every 8,760 operating hours or 3 years
Operating hours	Upon startup	Report deviations with each semiannual monitoring report
Frequency of visible emissions	Upon startup	With each semiannual monitoring report

Certification Parameter	Beginning Date (month/day/year)	Frequency of Submittal (6 mo, quarterly, etc.)
All applicable requirements	With this submittal and 45 days after 12/31 of the year permit issued	Annual
The air contaminant source identified in thi requirements? Types Not Applicable	s application is in compliance with applicable mor NoDescribe Below:	nitoring and compliance certification

		E SCHEDULE AND PLAN FOR A DEPARTMENT OF ENVIRONMENT R QUALITY	•••••••	OPERATE
OF NORTH OF	C-8 - Compressor Er	ıgine		
SECTION A1 -	- COMPLIANCE SCI	HEDULE AND PLAN		
Will your facility	y be in compliance w	ith all applicable requirements effective at	the time of permit issuance?	■Yes □No
If No. identify a	nnliachla raguiramar	at for which compliance is not achieved		
If No, Identify a	applicable requirement	nt for which compliance is not achieved:		
If No. provide a	a parrativa description	n of how compliance will be achieved with	this applicable requirement:	
		Tor now compliance will be achieved with	this applicable requirement.	
If No provide a	a detailed schedule o	f compliance:		
Regulation	Condition not in liance with	Action	Date Exp	pected
	submittal of progress	reports	Starting Date of Progress Rep	oorts
(6-month minin	num):			

SECTION A2 – COMPLIANCE SCI	HEDULE AND PLAN	
Will your facility be in compliance w	ith all applicable requirements effective a	fter the time of permit issuance? ■Yes □No
If No, identify applicable requiremer	nt for which compliance will not be compile	ed with:
If No, provide a detailed schedule le	ading to compliance:	
Regulation/Condition not in compliance with	Action	Date Expected

SECTION A3 – COMPLIANCE CERTIFICATION (METH Compliance Method Type	Compliance Method is Based On:		
Monitoring	Compliance Assurance Monitoring (CAM)		
Recordkeeping	Applicable Requirement		
Gap-Filling Requirement			
SECTION A4 –METHOD OF COMPLIANCE REFERENCE TEST METHOD			

Reference Test Method:

Method 1	, Method 320	, and/or ASTM D	6348-03 for NOx	, CO and VOC	; Method 9 for O	pacity
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Reference Test Method Citation:

40 CFR 60.4244; NDAC 33.1-15-03-05

SECTION A5 -I	METHOD OF COMPLIANCE MONITORING		
Monitoring Device Type:		Monitor Location Description:	
Stack Test	Parameter Monitoring	Stack Outlet	
□СЕМ	Ambient Monitoring		
Re	gulated Air Pollutant(s) Monitored:	Monitoring frequency and duration of sampling: (Example: every 15 min, 1 min instantaneous readings are taken to produce an hourly average.)	
NOx, CO, VOC		Every 8,760 operating hours or 3 years	
Opacity/Visible Emissions		Periodic observations for 60 minute periods	

Data (Parameter) Being Recorded	Frequency of Reporting (6 mo, quarterly, etc.)
Records of engine maintenance	Report deviations with each semiannual monitoring report
Records of NSPS JJJJ test results	Submit test report within 60 days
Records of notifications made	Initial within 30 days, test notification 30 days prior
Records of operating hours	Report deviations with each semiannual monitoring report
Presence of visible emissions	With each semiannual monitoring report

SECTION B2 -METHOD OF COMPLIANCE REPORTING

Data (Parameter) Being Recorded	Beginning Date (month/day/year)	Frequency of Reporting (6 mo, quarterly, etc.)
Maintenance records	Upon maintenance activity	Report deviations with each semiannual monitoring report
NSPS JJJJ test results	Within 180 days of startup	Submit test report within 60 days
Initial JJJJ notification/JJJJ test notification	Within 30 days of construction commencement/30 days prior	One time/Every 8,760 operating hours or 3 years
Operating hours	Upon startup	Report deviations with each semiannual monitoring report
Frequency of visible emissions	Upon startup	With each semiannual monitoring report

Certification Parameter	Beginning Date (month/day/year)	Frequency of Submittal (6 mo, quarterly, etc.)
All applicable requirements	With this submittal and 45 days after 12/31 of the year permit issued	Annual
The air contaminant source identified in thi requirements? Types Not Applicable	s application is in compliance with applicable mor NoDescribe Below:	nitoring and compliance certification

		E SCHEDULE AND PLAN FOR A DEPARTMENT OF ENVIRONMENT R QUALITY		DPERATE
OF NORTH OF	C-9 - Compressor Er	ıgine		
		HEDULE AND PLAN		
Will your facilit	y be in compliance w	ith all applicable requirements effective at	the time of permit issuance?	■Yes □No
If No, identify a	applicable requiremer	nt for which compliance is not achieved:		
If No, provide a	a narrative descriptior	n of how compliance will be achieved with	this applicable requirement:	
	a detailed schedule of	f compliance:		
	/Condition not in liance with	Action	Date Exp	ected
Frequency for (6-month minir	submittal of progress num):	reports	Starting Date of Progress Rep	ports

SECTION A2 - COMPLIANCE SCH	HEDULE AND PLAN	
Will your facility be in compliance wi	th all applicable requirements effective af	ter the time of permit issuance? ■Yes □No
If No, identify applicable requiremen	t for which compliance will not be compile	ed with:
If No, provide a detailed schedule le	ading to compliance:	
Regulation/Condition not in compliance with	Action	Date Expected

Compliance Method Type	Compliance Method is Based On:	
Monitoring	Compliance Assurance Monitoring (CAM)	
Recordkeeping	Applicable Requirement	
	Gap-Filling Requirement	

Reference Test Method:

Method 1, Method 320, and/or ASTM D 6348-03 for NOx, CO and VOC; Method 9 for Opacity

Reference Test Method Citation:

40 CFR 60.4244; NDAC 33.1-15-03-05

SECTION A5 -I	METHOD OF COMPLIANCE MONITORING		
Monitoring Device Type:		Monitor Location Description:	
Stack Test	Parameter Monitoring	Stack Outlet	
□СЕМ	Ambient Monitoring		
Re	gulated Air Pollutant(s) Monitored:	Monitoring frequency and duration of sampling: (Example: every 15 min, 1 min instantaneous readings are taken to produce an hourly average.)	
NOx, CO, VOC		Every 8,760 operating hours or 3 years	
Opacity/Visible Emissions		Periodic observations for 60 minute periods	

Data (Parameter) Being Recorded	Frequency of Reporting (6 mo, quarterly, etc.)
Records of engine maintenance	Report deviations with each semiannual monitoring report
Records of NSPS JJJJ test results	Submit test report within 60 days
Records of notifications made	Initial within 30 days, test notification 30 days prior
Records of operating hours	Report deviations with each semiannual monitoring report
Presence of visible emissions	With each semiannual monitoring report

SECTION B2 -METHOD OF COMPLIANCE REPORTING

Data (Parameter) Being Recorded	Beginning Date (month/day/year)	Frequency of Reporting (6 mo, quarterly, etc.)
Maintenance records	Upon maintenance activity	Report deviations with each semiannual monitoring report
NSPS JJJJ test results	Within 180 days of startup	Submit test report within 60 days
Initial JJJJ notification/JJJJ test notification	Within 30 days of construction commencement/30 days prior	One time/Every 8,760 operating hours or 3 years
Operating hours	Upon startup	Report deviations with each semiannual monitoring report
Frequency of visible emissions	Upon startup	With each semiannual monitoring report

Certification Parameter	Beginning Date (month/day/year)	Frequency of Submittal (6 mo, quarterly, etc.)
All applicable requirements	With this submittal and 45 days after 12/31 of the year permit issued	Annual
The air contaminant source identified in thi requirements? Types Not Applicable	s application is in compliance with applicable mor NoDescribe Below:	nitoring and compliance certification

CREAT SEA
1000
a land
TH OF NORTH DAY

COMPLIANCE SCHEDULE AND PLAN FOR TITLE V PERMIT TO OPERATE

NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY **DIVISION OF AIR QUALITY** SFN 61008 (3-2019)

FL-1 - Plant Flare

SECTION A1 - COMPLIANCE SCHEDULE AND PLAN

Will your facility be in compliance with all	applicable requirements effe	ctive at the time of permit issuance?	■Yes □No
If No, identify applicable requirement for	which compliance is not achie	eved:	
If No, provide a narrative description of h	ow compliance will be achiev	ed with this applicable requirement:	
If No, provide a detailed schedule of com	pliance:		
Regulation/Condition not in compliance with	Action	Date Ex	xpected
Frequency for submittal of progress repo (6-month minimum):	rts	Starting Date of Progress Re	eports

SECTION A2 – COMPLIANCE SCHEDULE AND PLAN				
Will your facility be in compliance with all applicable requirements effective after the time of permit issuance?				
If No, identify applicable requirement	t for which compliance will not be compi	led with:		
If No, provide a detailed schedule lea	ading to compliance:			
Regulation/Condition not in compliance with	Action	Date Expecte	ed	

SECTION A3 – COMPLIANCE CERTIFICATION (METHOD OF COMPLIANCE)		
Compliance Method Type	Compliance Method is Based On:	
Monitoring	Compliance Assurance Monitoring (CAM)	
Recordkeeping	Applicable Requirement	
	Gap-Filling Requirement	

SECTION A4 -METHOD OF COMPLIANCE REFERENCE TEST METHOD

Reference Test Method:

Method 22 for Opacity; Method 9 for Opacity Reference Test Method Citation:

40 CFR 60.18(f)(1); NDAC 33.1-15-03-05

SECTION A5 -I	METHOD OF COMPLIANCE MONITORING	
Monitoring Devi	се Туре:	Monitor Location Description:
Stack Test	Parameter Monitoring	Stack Outlet
□СЕМ	Ambient Monitoring	
Re	gulated Air Pollutant(s) Monitored:	Monitoring frequency and duration of sampling: (Example: every 15 min, 1 min instantaneous readings are taken to produce an hourly average.)
0	pacity/Visible Emissions	Per Method 22, one time, 2 hour observation period
0	pacity/Visible Emissions	Per Method 9, periodic observations for 60 minute periods
ŀ	Presence of pilot flame	Continuous

Data (Parameter) Being Recorded	Frequency of Reporting (6 mo, quarterly, etc.)
Presence of visible emissions	Per Method 22, one time, within 60 days of test
Presence of visible emissions	Per Method 9, with each semiannual monitoring report
Periods of pilot outages	With each semiannual monitoring report
Records of notifications made	Initial within 30 days, test notification 30 days prior

SECTION B2 – METHOD OF COMPLIANCE REPORTING

Data (Parameter) Being Recorded	Beginning Date (month/day/year)	Frequency of Reporting (6 mo, quarterly, etc.)
Presence of visible emissions	Within 180 days of startup	One time, within 60 days of test
Frequency of visible emissions	Upon startup	With each semiannual monitoring report
Periods of pilot outages	Upon startup	With each semiannual monitoring report

Certification Parameter	Beginning Date (month/day/year)	Frequency of Submittal (6 mo, quarterly, etc.)
All applicable requirements	With this submittal and 45 days after 12/31 of the year permit issued	Annual
The air contaminant source identified in this application is in compliance with applicable monitoring and compliance certification requirements? TypesNot ApplicableNoDescribe Below:		

NORTH DAK	ICE SCHEDULE AND PLAN FOR DTA DEPARTMENT OF ENVIRONMENT AIR QUALITY ¹⁹⁾				
FUG - Fugitives	FUG - Fugitives Subject to NSPS 0000a				
SECTION A1 – COMPLIANCE	SCHEDULE AND PLAN				
Will your facility be in complianc	e with all applicable requirements effective at	the time of permit issuance? ■Yes □No			
If No, identify applicable require	ment for which compliance is not achieved:				
If No, provide a narrative descrip	ption of how compliance will be achieved with	this applicable requirement:			
If No, provide a detailed schedu	e of compliance:				
Regulation/Condition not in compliance with	Regulation/Condition not in Action Date Expected				
Frequency for submittal of progr (6-month minimum):	ess reports	Starting Date of Progress Reports			

SECTION A2 – COMPLIANCE SCHEDULE AND PLAN				
Will your facility be in compliance with all applicable requirements effective after the time of permit issuance?				
If No, identify applicable requirement for which compliance will not be compiled with:				
If No, provide a detailed schedule le	ading to compliance:			
Regulation/Condition not in compliance with	Action	Date Expected	ł	

SECTION A3 – COMPLIANCE CERTIFICATION (METHOD OF COMPLIANCE)		
Compliance Method Type	Compliance Method is Based On:	
Monitoring	Compliance Assurance Monitoring (CAM)	
Recordkeeping	Applicable Requirement	
	☐Gap-Filling Requirement	

SECTION A4 –METHOD OF COMPLIANCE REFERENCE TEST METHOD Reference Test Method:

OGI - Monitoring Reference Test Method Citation:

NSPS OOOOa 60.5397a

SECTION A5 -METHOD OF COMPLIANCE MONITORING

Monitoring Device Type:		Monitor Location Description:
Stack Test	Parameter Monitoring	Facility wide
□СЕМ	Ambient Monitoring	
Re	gulated Air Pollutant(s) Monitored:	Monitoring frequency and duration of sampling: (Example: every 15 min, 1 min instantaneous readings are taken to produce an hourly average.)
	VOC	Quarterly

SECTION B1 –METHOD OF COMPLIANCE RECORDKEEPING

Data (Parameter) Being Recorded	Frequency of Reporting (6 mo, quarterly, etc.)
Date and location of leak detected	Quarterly record keeping and Annual Reporting
Date and method of leak repair	Quarterly record keeping and Annual Reporting

SECTION B2 - METHOD OF COMPLIANCE REPORTING

Data (Parameter) Being Recorded	Beginning Date (month/day/year)	Frequency of Reporting (6 mo, quarterly, etc.)
Date and location of leak detected		Annual
Date and method of leak repair	Within 180 days of startup	Annual

Certification Parameter	Beginning Date (month/day/year)	Frequency of Submittal (6 mo, quarterly, etc.)		
All applicable requirements	With this submittal and 45 days after 12/31 of the year permit issued	Annual		
The air contaminant source identified in this application is in compliance with applicable monitoring and compliance certification requirements? Types Not Applicable NoDescribe Below:				

PERMIT APPLICATION FOR AIR POLLUTION CONTROL EQUIPMENT



NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 8532 (3-2019)

NOTE: READ INSTRUCTIONS BEFORE COMPLETING THIS FORM. - Must also include forms SFN 8516 or SFN 52858

SECTION A – GENERAL INFORMATION

Name of Firm or Organization	Facility Name
Source ID No. of Equipment being Controlled	

SECTION B – EQUIPMENT

Туре:	Cyclone	Multiclone	Baghouse	Electrostatic Prec	ipitator	
	Wet Scrubber	🗌 Spray Dryer	Spray Dryer 🛛 Flare/Combu			
	Other – Specify:					
Name of M	Name of Manufacturer Model Number Date to Be Installed					
Application	ו.			l .		
Boiler	 Kiln	🗌 Engine	e 🗌 Oth	er – Specify:		
Pollutants	Removed					
Design Eff	ficiency (%)					
Operating	Efficiency (%)					
Describe r	nethod used to deter	mine operating efficier	ncy:	· · ·		

SECTION CD – GAS CONDITIONS

Gas Conditions			Inlet	Outlet
Gas Volume (SCFM; 68°F; 14.7 psia)				
Gas Temperature (°F)			
Gas Pressure (in. H ₂ O)				
Gas Velocity (ft/sec)				
Pollutant Concentration	Pollutant	Unit of Concentration		
(Specify Pollutant and Unit of				
Concentration)				
Pressure Drop Through Gas Cleaning Device (in. H ₂ O)				

PERMIT APPLICATION FOR AIR POLLUTION CONTROL EQUIPMENT



NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 8532 (3-2019)

NOTE: READ INSTRUCTIONS BEFORE COMPLETING THIS FORM. - Must also include forms SFN 8516 or SFN 52858

SECTION A – GENERAL INFORMATION

Name of Firm or Organization	Facility Name
Source ID No. of Equipment being Controlled	

SECTION B – EQUIPMENT

Туре:	Cyclone	Multiclone	Baghouse	Electrostatic Prec	ipitator	
	Wet Scrubber	🗌 Spray Dryer	Spray Dryer 🛛 Flare/Combu			
	Other – Specify:					
Name of M	Name of Manufacturer Model Number Date to Be Installed					
Application	ו.			l .		
Boiler	 Kiln	🗌 Engine	e 🗌 Oth	er – Specify:		
Pollutants	Removed					
Design Eff	ficiency (%)					
Operating	Efficiency (%)					
Describe r	nethod used to deter	mine operating efficier	ncy:	·		

SECTION CD – GAS CONDITIONS

Gas Conditions			Inlet	Outlet
Gas Volume (SCFM; 68°F; 14.7 psia)				
Gas Temperature (°F)			
Gas Pressure (in. H ₂ O)				
Gas Velocity (ft/sec)				
Pollutant Concentration	Pollutant	Unit of Concentration		
(Specify Pollutant and Unit of				
Concentration)				
Pressure Drop Through Gas Cleaning Device (in. H ₂ O)				



PERMIT APPLICATION FOR AIR POLLUTION CONTROL EQUIPMENT NORTH DAKOTA DEPARTMENT OF HEALTH DIVISION OF AIR QUALITY SFN 8532 (09-12)

NOTE: READ INSTRUCTIONS BEFORE COMPLETING THIS FORM.

SECTION A – GENERAL INFORMATION

Name of Firm or Organization			
Applicant's Name			
Title	Telephone Number	E-mail Address	
Mailing Address (Street & No.)			
City	State	ZIP Co	de

SECTION B – FACILITY INFORMATION

Facility Name		
Contact Person for Air Pollution Matters		
Title	Telephone Number	E-mail Address
Facility Location		Source ID No.

SECTION C – EQUIPMENT

Type: Cyclone	Multiclor	ne 🗌 Baghou	use 🗌 Electros	tatic Precipitator
U Wet Scrub	ber 🗌 Spray D] Spray Dryer 🔲 Other – Specify:		
Name of Manufacturer	Model Nur	nber	Date to Be Ins	stalled
Application: Boiler Kiln Engine Other – Specify:				Specify:
Pollutants Removed				
Design Efficiency (%)				
Operating Efficiency (%)				
Describe method used to a	determine operating	efficiency:		

SECTION D – GAS CONDITIONS

Gas Conditions		Inlet	Outlet	
Gas Volume (SCFN	/l; 68°F; 14.7 psia)			
Gas Temperature (°F)			
Gas Pressure (in. H	I ₂ O)			
Gas Velocity (ft/sec)				
Pollutant	Pollutant	Unit of Concentration		
Concentration				
(Specify Pollutant				
and Unit of				
Concentration)				
Pressure Drop Through Gas Cleaning Device (in. H ₂ O)				

Signature of Applicant	Date

INSTRUCTIONS FOR PERMIT APPLICATION FOR AIR POLLUTION CONTROL EQUIPMENT

- Complete this form for each piece of equipment or process, which has air pollution control equipment installed, described in the following Permit Applications: Hazardous Air Pollutant (HAP) Sources (SFN 8329), Fuel Burning Equipment for Indirect Heating (SFN 8518); Manufacturing or Processing Equipment (SFN 8520); Incinerators/Crematories (SFN 8522); Internal Combustion Engines and Turbines (SFN 8891); and Glycol Dehydration Units (SFN 58923). Print or type all information. If an item does not apply, place NA in the appropriate space.
- 2. Type of Equipment If the type is not one of those listed; provide enough information so the operating principal of the equipment can be determined.
- 3. List each pollutant which the device is intended to control, the efficiency of removal intended by the designer, and the actual efficiency under operating conditions.
- 4. Please attach the following:
 - A brief description and sketch of the air pollution control device if it is of unusual design, or used in conjunction with other control devices. Show any bypass of the device and specify the conditions under which the bypass is used.
 - A description of what is done with collected air contaminants from the time they are collected until they reach the final disposal point. Include a description of the transportation methods used.
 - If a stack test has been conducted, attach a copy of the results, date of the test, a description of the techniques used, and the name and address of the organization which performed the test.
- 5. If the control device is a combustor (e.g.: thermal oxidizer, vapor combustion unit, etc.), include an estimate of potential greenhouse gas emissions (CO₂e).

SUBMIT YOUR APPLICATION WITH ALL SUPPORTING DOCUMENTS, ALONG WITH THE FORMS SPECIFIED IN THE FIRST PARAGRAPH ABOVE, TO:

North Dakota Department of Health Division of Air Quality 918 E Divide Ave., 2nd Floor Bismarck, ND 58501-1947 (701) 328-5188