



BP America Production Company
Wamsutter Operations Center
P.O. Box 157
Wamsutter, WY 82336

July 16, 2015

NSR Program Manager
Attn: O&G Production Facilities
Wyoming Department of Environmental Quality
Air Quality Division
122 West 25th Street, Herschler Building 2-E
Cheyenne, WY 82002

IMPACT Submittal

**RE: BP America Production Company
 Tierney II Unit 24-70D Pad
 Chapter 6, Section 2 Permit Application**

Dear Sir/Madam:

BP America Production Company hereby submits an air permit application for the above noted well site. Note that this is a pad well and there are a total of seven (7) wells on location. The facility is equipped with a total of four (4) five smokeless combustion chambers which were installed on January 26, 2015.

Please contact me at (307)-328-3779 or Shanda.caldwell@bp.com if you have any questions concerning this application.

Sincerely,

Shanda Caldwell

Field Environmental Coordinator
e-signature



BP America Production Co.
Wamsutter Field
Site Facility Drawing
Scheduling Control
Site Security Plan on File at:
Wamsutter Operations Center
Wamsutter, Wyoming
Zone 300
Monday-Friday

SITE FACILITY
TIERNEY II UNIT
Z4-70 D
FED LEASE
FML# WYW8217A
FEU# WYW109727B

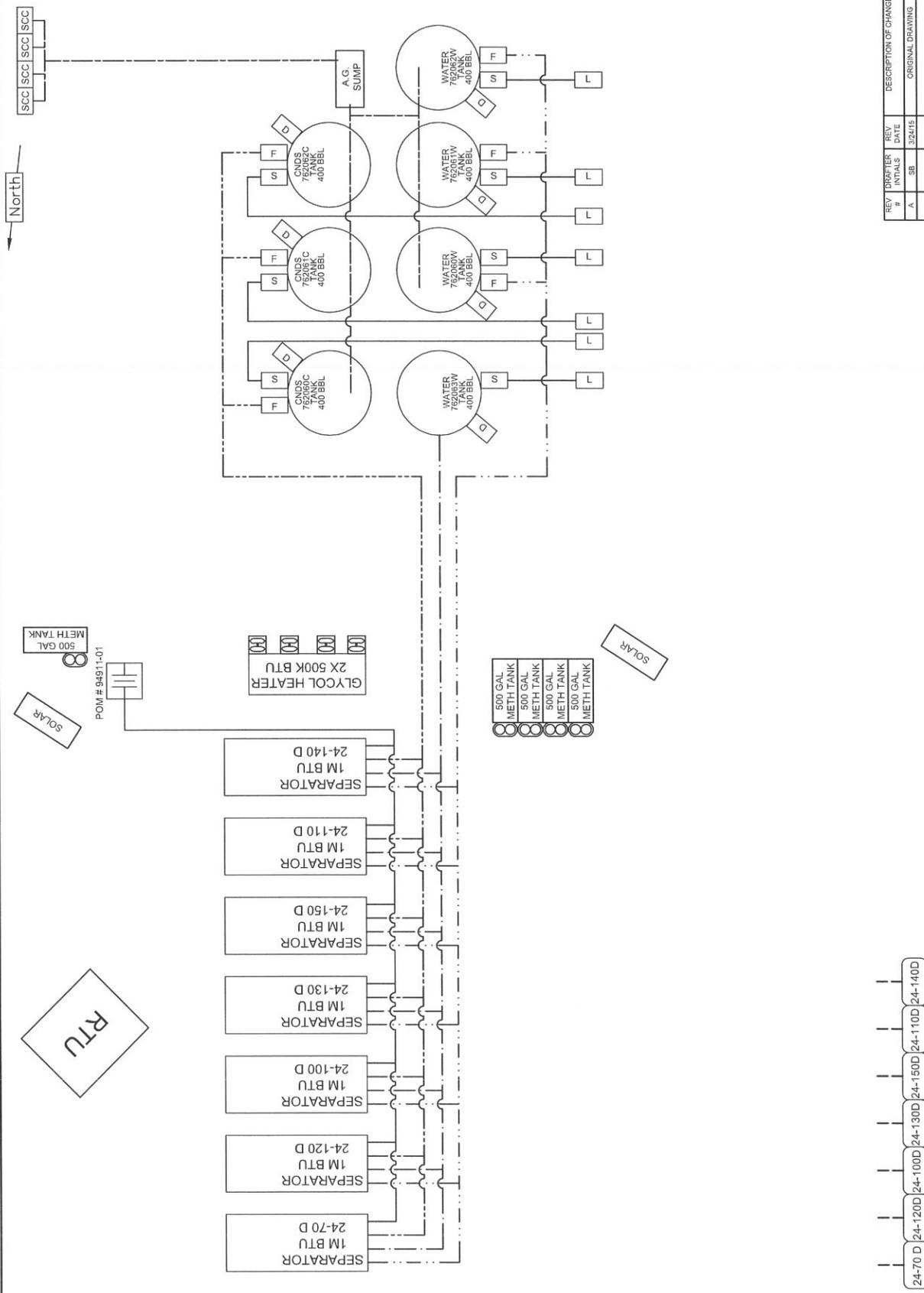
SE 1/4 NW 1/4 Sec. 30 T19N,
R04W

LEGEND:

| | | |
|-------|---|------------------------------------|
| VALVE | L | LOAD LINE VALVE |
| | D | DRAIN VALVE (Except G Drain) |
| | S | SALES VALVE (Except G Drain) |
| | F | SALES VALVE (Open During Sale) |
| | E | SALES VALVE (Closed During Sale) |
| | | EQUALIZER VALVE (Except During ED) |
| | | Blowdown |
| | | Flowline |
| | | Sales Gas |
| | | H ₂ O |
| | | Condensate |
| | | WPS Pipeline |
| | | CCS Pipeline |
| | | SCC |
| | | Mechanical Pump |
| | | Glycol Pump |
| | | POM Meter |
| | | Gas Meter |
| | | Oil Turbine Meter |
| | | Water Turbine Meter |
| | | Check Meter |

ABBREVIATIONS:

| | |
|-----------|---------------------------|
| CCS | Condensate Collection |
| WPS | Water Sales Pipeline |
| SCC | Shrinkless Combustion |
| POM | Point Of Measure |
| Agreement | Agreement |
| CA | Communication Agreement |
| FEU | Federal Explanatory Units |
| FML | Federal Mineral Lease |



| REV # | DRAWER # | REV INITIALS | REV DATE | DESCRIPTION OF CHANGE |
|-------|----------|--------------|----------|-----------------------|
| A | SB | | 3/24/15 | ORIGINAL DRAWING |

**BP America Production Company
Wamsutter Operations Center
Oil & Gas Production Facility
Chapter 6, Section 2 Air Permit Application
Construction and Process Description
Typical Location with a Smokeless Combustion Chamber**

Construction: After the well has been drilled and completed, the production equipment is installed. Separators, storage tanks, and dehydration units are manufactured by our suppliers and are complete when brought on location. The various pieces of equipment are placed on the location to meet the appropriate safety considerations and requirements associated with fired equipment on the same location with combustible materials. Equipment is configured to allow clear access for the trucks transporting the fluids from the location. All process flow lines are buried at least four feet deep. The dehydration units are installed concurrently by the company which will be operating the units and transporting the gas to their gathering system.

Process Description: The full production stream from the well head is directed to the separator. At the separator, the pressure is reduced from well head to the working pressure. This pressure is dictated by the gas gathering system serving the location. Pressures in the Wamsutter Field generally vary from 250 to 600 psig.

In the separator, the production stream is separated into gas, condensate, and produced water. All control valves, level controllers, pressure controllers, pumps, and temperature controllers are operated pneumatically by natural gas taken off the top of the separator. Fuel gas for the separator fire tube heater is also delivered from the location.

The gas stream is sent to the dehydration unit. In the dehydration unit, the gas is dried by triethylene glycol stripping to pipeline specifications. The dehydration unit is owned and operated by another company. The sale of the gas is accomplished at the location.

The liquid condensate (light hydrocarbons) stream is directed to the condensate storage tank. The condensate is accumulated in the condensate storage tank until a truckload of product is available. A truck-mounted vacuum pump accomplishes transfer of the product to the truck. Sale of the condensate is accomplished when the fluid is transferred to the truck. The condensate is trucked to a pipeline terminal for shipment to pipeline customers.

If the condensate production rate and sales line pressure are such that VOC emissions flashing from the condensate tank are predicted to exceed the criteria set by the Wyoming DEQ Air Quality Division, a smokeless combustion chamber is installed to destroy any released compounds. These units operate with a continuous pilot, the gas being from the top of the separator. Each combustion chamber is also equipped with a thermocouple connected to the automation system to monitor for the continuous presence of the pilot.

The produced water stream is directed to the produced water storage tank. The produced water is accumulated in the storage tank until a truckload is available. A truck-mounted vacuum pump accomplishes transfer of the produced water to the truck. Any condensate that has accumulated in the produced water storage tank is transferred to the condensate storage tank. The produced water is transported to an approved produced water disposal facility.

Hot ethylene glycol, from the glycol bath on the separator, is circulated by pump to various pieces of production equipment to prevent freezing. This is a seasonal requirement. The discharge from the glycol heat medium pneumatic pumps is routed to the SCC for 98% control.

If hydrate formation in the production string becomes a problem, methanol may be injected into the well bore to maintain production. This may be a seasonal or continuous requirement depending on well characteristics. It may also be necessary to periodically vent the well to maintain production due to fluids accumulation or hydrate freezing in the well bore. When this is done, the well is vented to the produced water tank to capture any liquids that are generated.



STATE OF WYOMING
 Department of Environmental Quality - Air Quality Division
 Oil and Gas Production Facilities C6 S2 Permit Application



Equipment List

Company Name BP America Production Company

Facility Name Tierney II Unit 24-70D Pad

List all production equipment at the site including all pressurized vessels with the potential for flash emissions, all hydrocarbon liquids and produced water storage tanks, all dehydration units, all pneumatic pumps, all natural gas-fired burners and heaters and all emission control equipment and devices. Pressurized vessels with the potential for flash emissions are all vessels that vent vapors to the atmosphere during times other than upset or emergency conditions (water knockouts, 2 phase and 3-phase separators, heater treaters, gun barrels, scrubber pots, etc). Provide design ratings for dehyds (MMCFD), process heaters, burners and pilots (MMBtu/hr, SCFH). Provide size of production & water storage tanks (BPD). For dehydration units indicate if the unit includes a glycol flash separator and/or reboiler still vent condenser. For emission control combustors/flares indicate design rating (MMBtu/hr, SCFD) and combustor/flare height (ft). Provide pneumatic pump motive gas usage (SCFH).

If more space is required, continue on page 2 of this sheet.

| Number | Equipment | Size/Rating | Control Equipment Installation Date |
|--------|--------------------------------------|-------------------|-------------------------------------|
| 3 | Condensate Tank(s) | 400 bbl | |
| 3 | Produced Water Tank(s) | 400 bbl | |
| 4 | Ethylene Glycol Heat Medium Pump(s) | Sandpiper(s) | |
| 7 | Heater(s) | 1 MMBtu/hr | |
| 4 | Smokeless Combustion Chambers (SCCs) | 3 MMBtu/hr | 1/26/2015 |
| 4 | Chemical Injection Pump(s) | TxAM Solar Pump | |
| 37 | Pneumatic Controllers | No Bleed/LowBleed | |
| 1 | Blowdown Tank | 400 bbl | |
| 8 | Three Phase Separator(s) | | |
| 2 | Heater(s) | 0.5 MMBtu/hr | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



STATE OF WYOMING

Department of Environmental Quality - Air Quality Division
Oil and Gas Production Facilities C6 S2 Permit Application
Storage Tanks, Pressurized Vessels & Pneumatic Pumps



Use as many copies of this form as necessary to include all tanks, vessels and pumps.

Company Name BP America Production Company
Facility Name Tierney II Unit 24-70D Pad

STORAGE TANKS

Below, list all atmospheric tanks used to store liquids transferred from an upstream vessel or wellhead. Upstream vessels include separators, treaters, flash tanks, FWKOs, gun barrels, tanks, etc. If more than one tank of the same size is used for the same purpose, receiving fluids from the same upstream vessel, those tanks may be combined on one line.

Table with 5 columns: Capacity (6.5), use (condensate / oil / H2O), total throughput (bpd), upstream vessel, upstream vessel pressure (psig). Rows include 3 - 400 bbl Condensate Tank(s) and 3 - 400 bbl Produced Water Tank(s).

PRESSURIZED VESSELS List each vessel separately.

Pressurized vessels include FWKO's, heater-treaters, separators (2-phase & 3-phase), gas boots, gun barrels, flash tanks, etc...

Table with 4 columns: vessel, operating pressure (psig), upstream vessel, upstream vessel pressure (psig). Row includes 8 - Three Phase Separator(s) with 275.00 psig operating pressure and well as upstream vessel.

What is the API gravity of the SALES oil or condensate at this facility? 52.6
Does this facility handle sour oil / gas? No

EMISSION CONTROL DEVICES & SYSTEMS for FLASH VAPORS & PRESSURE VESSEL PROCESS STREAMS

Identify each emission control system or device and the date(s) of installation for each.

smokeless combustion chambers for the condensate tanks and produced water tanks.

Combustion Device Emission Controls (if applicable)

Date of Installation 1/26/2015
Manufacturer Natco
Smokeless Design? yes
Excess Oxygen (%) 10%
VOC Destruction Efficiency (%) 98%
HAP Destruction Efficiency (%) 98%
Maximum Design Throughput (SCFD)
Minimum Design throughput (SCFD)
Actual Waste Gas Volume (SCFD) 16177.9
Waste Gas Heat Content (Btu/SCF) 2228
Burner Rating (MMBtu/hr) 3
Ignition System: Pilot X Electric Spark Other
Continuous Pilot? yes
Pilot Gas Volume (SCFM) 1.53
Is the Combustion Device Monitored? yes How? thermocouple and continuous monitor

PNEUMATIC PUMPS

Describe each pneumatic pump using natural gas as the motive gas. Indicate where motive gas is vented (atmosphere or other).

Chemical/methanol injection pumps and glycol heat trace pumps with gas routed to the condensate tanks which are controlled by smokeless combustion chambers.



STATE OF WYOMING

Department of Environmental Quality - Air Quality Division
Oil and Gas Production Facilities C6 S2 Permit Application



EMISSION SUMMARY

Company Name BP America Production Company
Facility Name Tierney II Unit 24-70D Pad

This form must be completed for each emission source at the facility. A list of the emission sources which must be considered is found in Appendix B of the C6 S2 O&G Production Facilities Permitting Guidance.

UNCONTROLLED EMISSIONS (Tons Per Year)

Table with 7 columns: EMISSION SOURCE, VOCs, total HAPs, NOx, CO, SO2, H2S. Rows include Condensate Tank(s), Heat Medium Pump(s), Chemical Injection Pump(s), Heater(s), Loading, Fugitives*, and a TOTAL row.

* Fugitive emissions are an estimate only and should not be considered a maximum allowable emission rate. Actual emissions will vary.

CONTROLLED EMISSIONS (Tons Per Year)

These are the total emissions from each source. Include controlled emissions from each controlled source and uncontrolled emissions from each source which does not require control, such as process equipment burners.

Table with 7 columns: EMISSION SOURCE, VOCs, total HAPs, NOx, CO, SO2, H2S. Rows include Condensate Tank(s), Heat Medium Pump(s), Chemical Injection Pump(s), Heater(s), Loading, Fugitives*, and a TOTAL row.

HAZARDOUS AIR POLLUTANT SUMMARY (Tons Per Year)

Complete this section for each emissions source if TOTAL HAPs from that source are 9 TPY or greater.

Table with 6 columns: SOURCE, Benzene, Toluene, Ethyl-Benzene, Xylenes, Other. Multiple empty rows for data entry.

BP America Production Company
Wamsutter Operations Center
Tierney II Unit 24-70D Pad
Oil & Gas Production Facility
Chapter 6, Section 2 Air Permit Application
7/16/2015

Description: Three Condensate Tanks
Control: Four Smokeless Combustion Chambers

I. Pilot's Source Information

Fuel Heating Value = 1142 Btu/scf
 Annual Hours of Operation = 8760 hrs/yr
 Pilot Flow Rate = 6.12 scfm

II. Pilot's Criteria Pollutant Emissions Calculations

| Pollutant | Emission Factor | Controlled Emissions | |
|------------------------------|-----------------|----------------------|--------|
| | | (lb/hr) | (TPY) |
| NO _x ¹ | 0.14 lb/MMBtu | 0.0587 | 0.2571 |
| CO ¹ | 0.035 lb/MMBtu | 0.0147 | 0.0643 |
| PM ² | 7.6 lb/MMscf | 0.0028 | 0.0122 |
| SO ₂ ² | 0.6 lb/MMscf | 0.0002 | 0.0010 |
| VOC ² | 5.5 lb/MMscf | 0.0020 | 0.0088 |

¹ Emission factors for NO_x and CO are based on Wyoming DEQ's Oil and Gas Production Facilities Chapter 6, Section 2, Permitting Guidance for flare operations dated 08/07.

² Emission factors for PM, SO₂, and VOC are based on AP-42, Fifth Edition, Volume 1, Chapter 1, Section 1.4, Table 1.4-1 and 1.4-2, dated 7/98.

III. Condensate Tank's Source Information

Operating Pressure = 275 psig
 Average Condensate Production = 48.8 bbl/day
 Annual Condensate Production = 17813 bbl/year
 Condensate Heating Value¹ = 2228 Btu/scf
 Condensate Gas Consumed = 5.90 MMscf/yr

¹ The flash gas heating value will vary. The flash gas heating value is based on the flash gas composition at the operating pressure from the 2008 HYSYS model runs for the Wamsutter Operations Center.

IV. Condensate Tank's Criteria Pollutant Emissions Calculations

| Pollutant | Emission Factor | Uncontrolled Emissions | | Controlled Emissions | |
|------------------------------|-----------------|------------------------|----------|----------------------|--------|
| | | (lb/hr) | (TPY) | (lb/hr) | (TPY) |
| NO _x ¹ | 0.14 lb/MMBtu | - | - | 0.2102 | 0.9208 |
| CO ¹ | 0.035 lb/MMBtu | - | - | 0.0526 | 0.2302 |
| PM ² | 7.6 lb/MMscf | - | - | 0.0051 | 0.0224 |
| SO ₂ ² | 0.6 lb/MMscf | - | - | 0.0004 | 0.0018 |
| VOC ³ | 98% DRE | 38.1617 | 167.1481 | 0.7632 | 3.3430 |
| HAP ³ | 98% DRE | 2.0742 | 9.0849 | 0.0415 | 0.1817 |
| n-Hexane | 98% DRE | 1.3062 | 5.7211 | 0.0261 | 0.1144 |
| Benzene | 98% DRE | 0.2815 | 1.2331 | 0.0056 | 0.0247 |
| Toluene | 98% DRE | 0.3602 | 1.5776 | 0.0072 | 0.0316 |
| Ethylbenzene | 98% DRE | 0.0104 | 0.0453 | 0.0002 | 0.0009 |
| Xylene | 98% DRE | 0.1159 | 0.5077 | 0.0023 | 0.0102 |

¹ Emission factors for NO_x and CO are based on Wyoming DEQ's Oil and Gas Production Facilities Chapter 6, Section 2, Permitting Guidance for flare operations dated 08/07.

² Emission factors for PM and SO₂ are based on AP-42, Fifth Edition, Volume 1, Chapter 1, Section 1.4, Table 1.4-1 and 1.4-2, dated 7/98.

³ VOC emissions are based on HYSYS model runs for the Wamsutter Operations Center. VOC emissions (TPY) = (0.1131 * tubing pressure (psi) - 12.336) (lb/bbl) * average condensate production (bbl/day) * 365 (days/yr) / 2000 (lbs/ton). HAP emissions (TPY) = (0.0071 * tubing pressure (psi) - 0.9325) (lb/bbl) * average condensate production (bbl/day) * 365 (days/yr) / 2000 (lbs/ton). The controlled VOC and HAP emissions are based on a 98% destruction efficiency.

VII. Emissions Summary

| Pollutant | Uncontrolled Emissions | | Controlled Emissions | |
|-----------------|------------------------|----------|----------------------|--------|
| | (lb/hr) | (TPY) | (lb/hr) | (TPY) |
| NO _x | - | - | 0.2689 | 1.1779 |
| CO | - | - | 0.0672 | 0.2945 |
| PM | - | - | 0.0079 | 0.0347 |
| SO ₂ | - | - | 0.0006 | 0.0027 |
| VOC | 38.1617 | 167.1481 | 0.7653 | 3.3518 |
| HAP | 2.0742 | 9.0849 | 0.0415 | 0.1817 |

BP America Production Company
Wamsutter Operations Center
Tierney II Unit 24-70D Pad
Oil & Gas Production Facility
Chapter 6, Section 2 Air Permit Application
7/16/2015

Description: Heat Medium Pump Pump Controlled? Yes

I. Glycol Heat Medium Pump's Source Information

| Number of Pumps | Pump Model | Gas Pressure (psig) | Stokes per Minute | Flow Rate Per Pump (scfm) | Operating Time (month/yr) | Total Annual Flow Rate (MMscf/yr) |
|-----------------|------------|---------------------|-------------------|---------------------------|---------------------------|-----------------------------------|
| 4 | Sandpiper | 30 | 40 | 2.15 | 9 | 3.39 |
| 0 | Graco 1050 | 30 | 40 | 3.22 | 9 | 0.00 |
| 0 | Graco 1590 | 30 | 40 | 9.47 | 9 | 0.00 |
| TOTAL | | | | | | 3.39 |

II. Heat Medium Pump's Criteria Pollutant Emissions Calculations
Sales/Fuel Gas Composition

| Component | Mole Percent (%) ¹ | Molecular Weight (lb/lb-mole) ² | Weight Percent (%) | Uncontrolled Emissions | | Controlled Emissions | |
|------------------------|-------------------------------|--|--------------------|------------------------|----------------|----------------------|-------------|
| | | | | (lb/hr) | (TPY) | (lb/hr) | (TPY) |
| Carbon Dioxide | 2.7282% | 44.010 | 6.0536% | 1.2260 | 5.3700 | | |
| Nitrogen | 0.1709% | 28.014 | 0.2414% | 0.0489 | 0.2142 | | |
| Methane | 84.8268% | 16.042 | 68.6075% | 13.8952 | 60.8608 | | |
| Ethane | 6.8207% | 30.069 | 10.3402% | 2.0942 | 9.1727 | 0.04 | 0.18 |
| Propane | 3.1924% | 44.096 | 7.0973% | 1.4374 | 6.2959 | 0.03 | 0.13 |
| Isobutane | 0.6497% | 58.122 | 1.9039% | 0.3856 | 1.6890 | 0.01 | 0.03 |
| n-Butane | 0.7366% | 58.122 | 2.1584% | 0.4371 | 1.9147 | 0.01 | 0.04 |
| Isopentane | 0.2636% | 72.149 | 0.9589% | 0.1942 | 0.8506 | 0.00 | 0.02 |
| n-Pentane | 0.2179% | 72.149 | 0.7925% | 0.1605 | 0.7031 | 0.00 | 0.01 |
| n-Hexane | 0.0737% | 86.175 | 0.3200% | 0.0648 | 0.2839 | 0.00 | 0.01 |
| Cyclohexane | 0.0158% | 84.159 | 0.0669% | 0.0135 | 0.0593 | 0.00 | 0.00 |
| 2,2-Dimethylbutane | 0.0046% | 86.175 | 0.0202% | 0.0041 | 0.0179 | 0.00 | 0.00 |
| 2,3-Dimethylbutane | 0.0185% | 86.175 | 0.0803% | 0.0163 | 0.0712 | 0.00 | 0.00 |
| 2-Methylpentane | 0.0560% | 86.175 | 0.2433% | 0.0493 | 0.2158 | 0.00 | 0.00 |
| 3-Methylpentane | 0.0284% | 86.175 | 0.1234% | 0.0250 | 0.1094 | 0.00 | 0.00 |
| n-Heptane | 0.1101% | 100.202 | 0.5562% | 0.1126 | 0.4934 | 0.00 | 0.01 |
| Methylcyclohexane | 0.0104% | 98.186 | 0.0514% | 0.0104 | 0.0456 | 0.00 | 0.00 |
| 2,2,4 Trimethylpentane | 0.0042% | 114.230 | 0.0243% | 0.0049 | 0.0216 | 0.00 | 0.00 |
| Benzene | 0.0163% | 78.112 | 0.0643% | 0.0130 | 0.0571 | 0.00 | 0.00 |
| Toluene | 0.0218% | 92.138 | 0.1014% | 0.0205 | 0.0899 | 0.00 | 0.00 |
| Ethylbenzene | 0.0003% | 106.165 | 0.0015% | 0.0003 | 0.0013 | 0.00 | 0.00 |
| m-Xylene | 0.0106% | 106.165 | 0.0565% | 0.0114 | 0.0501 | 0.00 | 0.00 |
| o-Xylene | 0.0010% | 106.165 | 0.0054% | 0.0011 | 0.0048 | 0.00 | 0.00 |
| n-Octane | 0.0146% | 114.229 | 0.0842% | 0.0171 | 0.0747 | 0.00 | 0.00 |
| n-Nonane | 0.0037% | 128.255 | 0.0238% | 0.0048 | 0.0211 | 0.00 | 0.00 |
| n-Decane | 0.0032% | 142.282 | 0.0231% | 0.0047 | 0.0205 | 0.00 | 0.00 |
| Total | 100.0000% | 19.83 | 100.0000% | 20.2531 | 88.7086 | 0.41 | 1.77 |
| Total VOCs | 5.4533% | | 14.7572% | 2.9888 | 13.0909 | 0.06 | 0.26 |
| Total HAPS | 0.1279% | | 0.5734% | 0.1161 | 0.5087 | 0.00 | 0.01 |

¹ The sales/fuel gas composition is based on the sales/fuel gas composition at the operating pressure from the 2008 HYSYS model runs for the Wamsutter Operations Center.

² The molecular weights are from GSPA Engineering Data Book, 12th Edition.

BP America Production Company
Wamsutter Operations Center
Tierney II Unit 24-70D Pad
Oil & Gas Production Facility
Chapter 6, Section 2 Air Permit Application
7/16/2015

Description: Chemical Injection Pump(s) Pump Controlled? No

I. Chemical Injection Pump's Source Information

| Number of Pumps | Pump Model | Gas Pressure (psig) | Stokes per Minute | Flow Rate Per Pump (scfm) | Operating Time (month/yr) | Total Annual Flow Rate (MMscf/yr) |
|-----------------|------------|---------------------|-------------------|---------------------------|---------------------------|-----------------------------------|
| 4 | 6.5 | 0 | 12 | 0.00 | 12 | 0.00 |
| | | | | 0.60 | 9 | 0.00 |
| TOTAL | | | | | | 0.00 |

II. Chemical Injection Pump's Criteria Pollutant Emissions Calculations
Sales/Fuel Gas Composition

| Component | Mole Percent (%) ¹ | Molecular Weight (lb/lb-mole) ² | Weight Percent (%) | Uncontrolled Emissions | | Controlled Emissions | |
|------------------------|-------------------------------|--|--------------------|------------------------|---------------|----------------------|-------------|
| | | | | (lb/hr) | (TPY) | (lb/hr) | (TPY) |
| Carbon Dioxide | 2.7282% | 44.010 | 6.0536% | 0.0000 | 0.0000 | | |
| Nitrogen | 0.1709% | 28.014 | 0.2414% | 0.0000 | 0.0000 | | |
| Methane | 84.8268% | 16.042 | 68.6075% | 0.0000 | 0.0000 | | |
| Ethane | 6.8207% | 30.069 | 10.3402% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Propane | 3.1924% | 44.096 | 7.0973% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Isobutane | 0.6497% | 58.122 | 1.9039% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| n-Butane | 0.7366% | 58.122 | 2.1584% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Isopentane | 0.2636% | 72.149 | 0.9589% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| n-Pentane | 0.2179% | 72.149 | 0.7925% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| n-Hexane | 0.0737% | 86.175 | 0.3200% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Cyclohexane | 0.0158% | 84.159 | 0.0669% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 2,2-Dimethylbutane | 0.0046% | 86.175 | 0.0202% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 2,3-Dimethylbutane | 0.0185% | 86.175 | 0.0803% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 2-Methylpentane | 0.0560% | 86.175 | 0.2433% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 3-Methylpentane | 0.0284% | 86.175 | 0.1234% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| n-Heptane | 0.1101% | 100.202 | 0.5562% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Methylcyclohexane | 0.0104% | 98.186 | 0.0514% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 2,2,4 Trimethylpentane | 0.0042% | 114.230 | 0.0243% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Benzene | 0.0163% | 78.112 | 0.0643% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Toluene | 0.0218% | 92.138 | 0.1014% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Ethylbenzene | 0.0003% | 106.165 | 0.0015% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| m-Xylene | 0.0106% | 106.165 | 0.0565% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| o-Xylene | 0.0010% | 106.165 | 0.0054% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| n-Octane | 0.0146% | 114.229 | 0.0842% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| n-Nonane | 0.0037% | 128.255 | 0.0238% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| n-Decane | 0.0032% | 142.282 | 0.0231% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 100.0000% | 19.83 | 100.0000% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total VOCs | 5.4533% | | 14.7572% | 0.0000 | 0.0000 | 0.00 | 0.00 |
| Total HAPS | 0.1279% | | 0.5734% | 0.0000 | 0.0000 | 0.00 | 0.00 |

¹ The sales/fuel gas composition is based on the sales/fuel gas composition at the operating pressure from the 2008 HYSYS model runs for the Wamsutter Operations Center.

² The molecular weights are from GSPA Engineering Data Book, 12th Edition.

**BP America Production Company
Wamsutter Operations Center
Tierney II Unit 24-70D Pad
Oil & Gas Production Facility
Chapter 6, Section 2 Air Permit Application
7/16/2015**

Description: Heater(s)

I. Heater(s) Source Information

| | | |
|---|-----------|----------|
| No. of Heater(s) | 9 | |
| Design Firing Rate | 1.0 & 0.5 | MMBtu/hr |
| Total Firing Rate for all Fired Sources | 8.00 | MMBtu/hr |
| Fuel Heating Value ¹ | 1142 | Btu/scf |
| Annual Hours of Operation | 8760 | hr |
| Fuel Consumed (MMscf/yr) | 61.36 | MMscf/yr |

II. Heater(s) Criteria Pollutant Emissions Calculations

| Pollutant | Emission Factor (lb/MMscf) ² | Emissions (lb/hr) | Emissions (TPY) |
|-----------------|--|----------------------|--------------------|
| NO _x | 100 | 0.7005 | 3.0682 |
| CO | 84 | 0.5884 | 2.5773 |
| PM | 7.6 | 0.0532 | 0.2332 |
| SO ₂ | 0.6 | 0.0042 | 0.0184 |
| VOC | 5.5 | 0.0385 | 0.1688 |
| Formaldehyde | 0.075 | 0.0005 | 0.0023 |

¹ The sales/fuel gas heating value is based on the gas composition at the operating pressure from the 2008 HYSYS model runs for the Wamsutter Operations Center.

² Emission factors are based on AP-42, Fifth Edition, Volume 1, Chapter 1, Section 1.4, Table 1.4-1 and 1.4-2 dated 7/98.

**BP America Production Company
Wamsutter Operations Center
Tierney II Unit 24-70D Pad
Oil & Gas Production Facility
Chapter 6, Section 2 Air Permit Application
7/16/2015**

Description: Truck Loading

Basis

Emissions from loading are estimated using following from EPA's AP-42 Section 5.2, dated January 1995

$$L_L = 12.46 * SPM/T$$

Where:

$$6.5$$

L_L = loading loss, pounds per 1000 gallons (lb/10³ gal) of liquid loaded

S = saturation factor (see Table 5.2-1)

P = true vapor pressure of liquid loaded, pounds per square inch absolute (psia)

M = molecular weight of vapors, pounds per pound-mole (lb/lb-mole)

T = temperature of bulk liquid loaded, °R (°F + 460)

Source Information

Maximum Hourly Throughput = 14000 gal/hr
 Annual Throughput = 748165.32 gal/yr
 Production Factor = 1
 S, Saturation Factor = 0.6 Submerged loading = 0.6
 P, True Vapor Pressure = 2.30 psia¹
 M, Molecular Weight of Vapors = 50.00 lb/lb-mole
 T, Temperature of Bulk Liquid Loaded = 505.7 °R²

¹ The true vapor pressure of 2.3 is from EPA's AP-42 Section 7.1, Table 7.1-2, for crude oil RVP 5 at 50°F, dated November 2006.

² The temperature of the bulk liquid loaded is based on annual average temperature for Cheyenne, WY from EPA's AP-42 Section 7.1, Table 7.1-7, dated November 2006.

Emissions Calculations

L_L (lb/10³ gal) = 12.46 * SPM/T
 L_L (lb/10³ gal) = 12.46 * 0.60 * 2.30 psia * 50.00 lb/lb-mole / 505.70 R
 L_L (lb/10³ gal) = 1.7001

VOC Emissions (lb/hr) = 1.7001 lb/1000 gal * 14000.00 gal/hr
 VOC Emissions (lb/hr) = 23.8014

VOC Emissions (TPY) = 1.7001 lb/1000 gal * 748165.32 gal/yr * 1 ton/2000 lbs * 1.0
 VOC Emissions (TPY) = 0.6360

Emissions Composition

| Component | Mole Percent (%) ¹ | Molecular Weight (lb/lb-mole) ² | Weight Percent (%) | Emissions (lb/hr) | Emissions (TPY) |
|------------------------|-------------------------------|--|--------------------|-------------------|-----------------|
| Carbon Dioxide | 0.0312% | 44.010 | 0.0134% | 0.0032 | 0.0001 |
| Nitrogen | 0.0000% | 28.014 | 0.0000% | 0.0000 | 0.0000 |
| Methane | 0.1308% | 16.042 | 0.0205% | 0.0049 | 0.0001 |
| Ethane | 0.3144% | 30.069 | 0.0921% | 0.0219 | 0.0006 |
| Propane | 1.5485% | 44.096 | 0.6655% | 0.1584 | 0.0042 |
| Isobutane | 1.5361% | 58.122 | 0.8702% | 0.2071 | 0.0055 |
| n-Butane | 2.9490% | 58.122 | 1.6706% | 0.3976 | 0.0106 |
| Isopentane | 3.5385% | 72.149 | 2.4883% | 0.5922 | 0.0158 |
| n-Pentane | 4.1623% | 72.149 | 2.9268% | 0.6966 | 0.0186 |
| n-Hexane | 5.0265% | 86.175 | 4.2217% | 1.0048 | 0.0268 |
| Cyclohexane | 1.4536% | 84.159 | 1.1923% | 0.2838 | 0.0076 |
| 2,2-Dimethylbutane | 0.1691% | 86.175 | 0.1421% | 0.0338 | 0.0009 |
| 2,3-Dimethylbutane | 0.8010% | 86.175 | 0.6727% | 0.1601 | 0.0043 |
| 2-Methylpentane | 2.6881% | 86.175 | 2.2577% | 0.5374 | 0.0144 |
| 3-Methylpentane | 1.5544% | 86.175 | 1.3056% | 0.3107 | 0.0083 |
| n-Heptane | 23.1421% | 100.202 | 22.6005% | 5.3792 | 0.1437 |
| Methylcyclohexane | 2.0345% | 98.186 | 1.9470% | 0.4634 | 0.0124 |
| 2,2,4 Trimethylpentane | 0.8207% | 114.230 | 0.9137% | 0.2175 | 0.0058 |
| Benzene | 1.2951% | 78.112 | 0.9860% | 0.2347 | 0.0063 |
| Toluene | 5.5917% | 92.138 | 5.0214% | 1.1952 | 0.0319 |
| Ethylbenzene | 0.2160% | 106.165 | 0.2235% | 0.0532 | 0.0014 |
| m-Xylene | 9.5941% | 106.165 | 9.9272% | 2.3628 | 0.0631 |
| o-Xylene | 0.9793% | 106.165 | 1.0133% | 0.2412 | 0.0064 |
| n-Octane | 9.0774% | 114.229 | 10.1060% | 2.4054 | 0.0643 |
| n-Nonane | 6.4211% | 128.255 | 8.0265% | 1.9104 | 0.0510 |
| n-Decane | 14.9241% | 142.282 | 20.6956% | 4.9258 | 0.1316 |
| Total | 100.0000% | 102.60 | 100.0000% | 23.8014 | 0.6360 |
| Total VOCs | 99.5235% | | 99.8740% | 23.7714 | 0.6352 |
| Total HAPs | 23.5235% | | 22.3068% | 5.3093 | 0.1419 |

¹ The condensate composition is from the 2008 HYSYS model runs for the Wamsutter Operations Center based on operating pressure.

² The molecular weights are from GSPA Engineering Data Book, 12th Edition.

BP America Production Company
Wamsutter Operations Center
Tierney II Unit 24-70D Pad
Oil & Gas Production Facility
Chapter 6, Section 2 Air Permit Application
7/16/2015

Description: Fugitives

Source Information
Annual Hours of Operation = 8760 hrs/yr

| Emission Calculations | | 6.5 | | | |
|-----------------------|------------|--|------------------|-----------------------------------|---------------------------------|
| Equipment | Service | Emissions Factor ¹ (lb/hr-component) | Component Counts | Emissions ² (lb/hr) | Emissions ³ (TPY) |
| Valves | Gas | 9.50E-03 | 140 | 1.3822 | 5.0845 |
| | Condensate | 5.51E-03 | 70 | 0.3859 | 1.0901 |
| Flanges | Gas | 8.60E-04 | 1176 | 1.0113 | 4.4285 |
| | Condensate | 2.43E-04 | 308 | 0.0747 | 0.3272 |
| Connectors | Gas | 4.41E-04 | 4718 | 2.0806 | 9.1132 |
| | Condensate | 4.63E-04 | 308 | 0.1426 | 0.6247 |
| Open-ended Lines | Gas | 4.41E-03 | 0 | 0.0000 | 0.0000 |
| | Condensate | 3.05E-03 | 0 | 0.0000 | 0.0000 |
| Pump Seals | Gas | 5.29E-03 | 0 | 0.0000 | 0.0000 |
| | Condensate | 2.87E-02 | 0 | 0.0000 | 0.0000 |
| Other ⁴ | Gas | 1.94E-02 | 14 | 0.2717 | 1.1899 |
| | Condensate | 1.05E-02 | 14 | 0.2315 | 1.0141 |
| Total | | | 6748 | 5.5875 | 24.4731 |
| | Gas | | | 4.7527 | 20.8170 |
| | Condensate | | 700 | 0.8347 | 3.6561 |

¹ Other includes compressor seals, pressure relief valves, dump level arms, polished rod pumps, and miscellaneous components.
² The emission factors are based on EPA's "Protocol for Equipment Leak Emission Estimates," Oil and Gas Production Operations Average Emission Factors Table, dated November 1995.
³ Fugitive emissions are an estimate only and should not be considered a maximum allowable emission rate. Actual emissions will vary.

Emissions Composition

| Gas Stream | | | | | |
|------------------------|------------------|--|--------------------|--------------------------------|------------------------------|
| Component | Mole Percent (%) | Molecular Weight (lb/lb-mole) ¹ | Weight Percent (%) | Emissions (lb/hr) ² | Emissions (TPY) ³ |
| Carbon Dioxide | 2.7009% | 44.010 | 5.7099% | 0.2723 | 1.1908 |
| Nitrogen | 0.1688% | 28.014 | 0.2279% | 0.0108 | 0.0474 |
| Methane | 83.8101% | 16.042 | 84.8091% | 3.0802 | 13.4814 |
| Ethane | 8.7742% | 30.069 | 9.5169% | 0.4687 | 2.0440 |
| Propane | 3.2192% | 44.096 | 8.8428% | 0.3252 | 1.4245 |
| Isobutane | 0.6763% | 58.122 | 1.8448% | 0.0601 | 0.3644 |
| n-Butane | 0.7833% | 58.122 | 2.1038% | 0.1043 | 0.4567 |
| Isopentane | 0.3085% | 72.149 | 1.0726% | 0.0510 | 0.2233 |
| n-Pentane | 0.2582% | 72.149 | 0.9327% | 0.0443 | 0.1942 |
| n-Hexane | 0.1261% | 86.175 | 0.5322% | 0.0253 | 0.1108 |
| Cyclohexane | 0.0313% | 84.159 | 0.1271% | 0.0050 | 0.0205 |
| 2,2-Dimethylbutane | 0.0066% | 86.175 | 0.0272% | 0.0013 | 0.0057 |
| 2,3-Dimethylbutane | 0.0274% | 86.175 | 0.1139% | 0.0054 | 0.0237 |
| 2-Methylpentane | 0.0557% | 86.175 | 0.3581% | 0.0168 | 0.0741 |
| 3-Methylpentane | 0.0454% | 86.175 | 0.1888% | 0.0090 | 0.0393 |
| n-Heptane | 0.3522% | 100.202 | 1.7014% | 0.0899 | 0.3542 |
| Methylcyclohexane | 0.0117% | 98.186 | 0.1601% | 0.0071 | 0.0313 |
| 2,2,4-Trimethylpentane | 0.0125% | 114.230 | 0.0706% | 0.0034 | 0.0147 |
| Benzene | 0.0303% | 78.112 | 0.1141% | 0.0054 | 0.0238 |
| Toluene | 0.0902% | 92.138 | 0.3562% | 0.0169 | 0.0742 |
| Ethylbenzene | 0.0205% | 106.165 | 0.0769% | 0.0036 | 0.0157 |
| m-Xylene | 0.1097% | 106.165 | 0.5616% | 0.0267 | 0.1169 |
| o-Xylene | 0.0111% | 106.165 | 0.0689% | 0.0027 | 0.0119 |
| n-Octane | 0.1086% | 114.229 | 0.5080% | 0.0284 | 0.1245 |
| n-Nonane | 0.0689% | 128.255 | 0.4324% | 0.0206 | 0.0900 |
| n-Decane | 0.1671% | 142.282 | 1.0772% | 0.0512 | 0.2242 |
| Total | 100.0000% | 20.745 | 100.0000% | 4.7527 | 20.8170 |
| Total VOC | 5.5466% | | 19.8136% | 0.9227 | 4.0413 |
| Total HAPs | 0.3748% | | 1.7045% | 0.0810 | 0.3548 |

The gas stream composition is the well stream from the 2008 HYSYS model runs for the Wamsutter Operations Center.
¹ The molecular weights are from GSPA Engineering Data Book, 12th Edition.
² Fugitive emissions are an estimate only and should not be considered a maximum allowable emission rate. Actual emissions will vary.

| Condensate Stream | | | | | |
|------------------------|------------------|--|--------------------|--------------------------------|------------------------------|
| Component | Mole Percent (%) | Molecular Weight (lb/lb-mole) ¹ | Weight Percent (%) | Emissions (lb/hr) ² | Emissions (TPY) ³ |
| Carbon Dioxide | 0.5896% | 44.010 | 0.2091% | 0.0025 | 0.0109 |
| Nitrogen | 0.0019% | 28.014 | 0.0005% | 0.0000 | 0.0000 |
| Methane | 6.3647% | 16.042 | 1.1770% | 0.0098 | 0.0430 |
| Ethane | 4.2279% | 30.069 | 1.4655% | 0.0122 | 0.0536 |
| Propane | 5.4613% | 44.096 | 3.2845% | 0.0274 | 0.1201 |
| Isobutane | 3.3362% | 58.122 | 2.2474% | 0.0187 | 0.0817 |
| n-Butane | 5.5703% | 58.122 | 3.7323% | 0.0312 | 0.1365 |
| Isopentane | 4.6933% | 72.149 | 3.9053% | 0.0326 | 0.1428 |
| n-Pentane | 4.8213% | 72.149 | 4.0101% | 0.0335 | 0.1468 |
| n-Hexane | 4.3135% | 86.175 | 4.2852% | 0.0358 | 0.1567 |
| Cyclohexane | 0.0000% | 84.159 | 0.0000% | 0.0000 | 0.0000 |
| 2,2-Dimethylbutane | 0.1557% | 86.175 | 0.1547% | 0.0013 | 0.0057 |
| 2,3-Dimethylbutane | 0.7404% | 86.175 | 0.7409% | 0.0063 | 0.0274 |
| 2-Methylpentane | 2.5259% | 86.175 | 2.5093% | 0.0209 | 0.0917 |
| 3-Methylpentane | 1.3000% | 86.175 | 1.3809% | 0.0115 | 0.0505 |
| n-Heptane | 19.1522% | 100.202 | 22.8165% | 0.1905 | 0.8342 |
| Methylcyclohexane | 0.0000% | 98.186 | 0.0000% | 0.0000 | 0.0000 |
| 2,2,4-Trimethylpentane | 0.6087% | 114.230 | 0.8019% | 0.0067 | 0.0293 |
| Benzene | 1.0483% | 78.112 | 0.9440% | 0.0078 | 0.0345 |
| Toluene | 4.2112% | 92.138 | 4.4943% | 0.0375 | 0.1643 |
| Ethylbenzene | 0.1357% | 106.165 | 0.1661% | 0.0014 | 0.0061 |
| m-Xylene | 7.0812% | 106.165 | 8.8789% | 0.0724 | 0.3173 |
| o-Xylene | 0.7087% | 106.165 | 0.8649% | 0.0072 | 0.0318 |
| n-Octane | 6.3801% | 114.229 | 8.4019% | 0.0701 | 0.3072 |
| n-Nonane | 4.3024% | 128.255 | 6.3612% | 0.0531 | 0.2325 |
| n-Decane | 10.5364% | 142.282 | 17.2822% | 0.1443 | 0.6319 |
| Total | 100.0000% | 86.745 | 100.0000% | 0.8347 | 3.6561 |
| Total VOC | 88.8163% | | 97.0578% | 0.8102 | 3.5485 |
| Total HAPs | 18.1353% | | 20.2347% | 0.1689 | 0.7388 |

The condensate stream composition is the pressurized condensate from the 2008 HYSYS model runs for the Wamsutter Operations Center.
¹ The molecular weights are from GSPA Engineering Data Book, 12th Edition.
² Fugitive emissions are an estimate only and should not be considered a maximum allowable emission rate. Actual emissions will vary.

| Emissions Summary | | |
|------------------------|--------------------------------|------------------------------|
| Component | Emissions (lb/hr) ¹ | Emissions (TPY) ² |
| Carbon Dioxide | 0.2748 | 1.2037 |
| Nitrogen | 0.0108 | 0.0475 |
| Methane | 3.0901 | 13.3345 |
| Ethane | 0.4769 | 2.0976 |
| Propane | 0.3526 | 1.5445 |
| Isobutane | 0.1087 | 0.4781 |
| n-Butane | 0.1354 | 0.5851 |
| Isopentane | 0.0836 | 0.3661 |
| n-Pentane | 0.0778 | 0.3408 |
| n-Hexane | 0.0611 | 0.2675 |
| Cyclohexane | 0.0060 | 0.0265 |
| 2,2-Dimethylbutane | 0.0026 | 0.0113 |
| 2,3-Dimethylbutane | 0.0117 | 0.0511 |
| 2-Methylpentane | 0.0379 | 0.1659 |
| 3-Methylpentane | 0.0205 | 0.0898 |
| n-Heptane | 0.2713 | 1.1884 |
| Methylcyclohexane | 0.0071 | 0.0313 |
| 2,2,4-Trimethylpentane | 0.0100 | 0.0440 |
| Benzene | 0.0133 | 0.0583 |
| Toluene | 0.0544 | 0.2385 |
| Ethylbenzene | 0.0020 | 0.0088 |
| m-Xylene | 0.0991 | 0.4342 |
| o-Xylene | 0.0099 | 0.0435 |
| n-Octane | 0.0985 | 0.4316 |
| n-Nonane | 0.0737 | 0.3226 |
| n-Decane | 0.1955 | 0.8561 |
| Total | 5.5875 | 24.4731 |
| Total VOC | 1.1328 | 7.5899 |
| Total HAPs | 0.2499 | 1.0946 |

Fugitive emissions are an estimate only and should not be considered a maximum allowable emission rate. Actual emissions will vary.

**NSR Application A0001300
Tierney II Unit 24-70D Pad
F026713
July 17, 2015**

If I am claiming any information in this submission is a trade secret, I hereby swear or affirm that the trade secret request meets the requirements of Wyoming Air Quality Standards and Regulations and that the justification submitted with the trade secret request sets forth the basis for claiming that the information should be considered a trade secret as defined in Wyoming Air Quality Standards and Regulations.

- a) I am the Authorized Representative identified in applicable Wyoming Air Quality Standards and Regulations as authorized to sign this document; and**
- b) Based on information and belief formed after reasonable inquiry, I hereby affirm that all factual statements in this transmittal are true, accurate and complete to the best of my knowledge and that all judgments and estimates have been made in good faith.**

Account: robinstr

Date/time submitted: Jul 17 2015, 11:16:59

Air Quality Division
Application for NSR Permit

Jul 17 2015, 11:16:59

- NSR Application

This information should be filled out for each New Source Review (NSR) application. An NSR permit is required for all air contaminant sources (emissions units) installed or modified after January 1, 1974. See the application instructions for additional information.

- Purpose of Application

Please summarize the reason this permit is being applied for.

New Production site - pad well

Has the facility changed location or is it a new/greenfield facility? Yes

Has a Land Use Planning document been included in this application? No

Does production at this facility contain H2S? No

- Federal Rules Applicability - Facility Level

Prevention of Significant Deterioration (PSD) Not affected
These rules are found under WAQSR Chapter 6, Section 4.

Non-Attainment New Source Review Not affected
These rules are found under WAQSR Chapter 6, Section 13.

- Trade Secret Information - One or more Emissions Units in this application contains trade secret information.

No

- Permit Application Contact - Newly created contacts and application contact changes will be saved when the application is saved.

| | | |
|-----------------|----------------------|-------------------------------|
| Shanda Caldwell | | BP America Production Company |
| Name | Title | Company |
| P.O. Box 157 | Wamsutter, WY | 82336 |
| Street Address | City/Township, State | Zip Code |
| (307) 328-3779 | (307) 328-3779 | shanda.caldwell@bp.com |
| Phone | Fax | E-mail |

- Modeling Section

Ambient Air Quality Impact Analysis: WAQSR Chapter 6, Section 2(c)(ii) requires that permit applicants demonstrate that a proposed facility will not prevent the attainment or maintenance of any ambient air quality standard.

Has the applicant contacted AQD to determine if modeling is required? No

Is a modeling analysis part of this application? No

Is the proposed project subject to Prevention of Significant Deterioration (PSD) requirements? No

- Application Attachments

| Required Attachment | Public Document Id | Attachment Type | Description |
|---------------------|--------------------|----------------------------------|------------------------|
| X | 6620 | Process Flow Diagram | Process Flow Diagram |
| X | 6621 | Emissions Calculations | Emissions Calculations |
| X | 6622 | Cover Letter/Project Description | Cover letter |
| X | 6623 | Equipment List | equipment list |
| X | 6729 | Facility Map | Site map |

Section II - Specific Air Contaminant Source Information

AQD EU ID: FUG001

AQD EU description:

Company EU ID: Fugitives

Company EU Description: Fugitive Leaks at O&G facility

- **Source Installation or Modification Schedule** – Select reason(s) for this emissions unit being included in this application (must be completed regardless of date of installation or modification):

Construction(greenfield/new facility)

Date production began:

04/26/2015

- **Emission Unit Type Specific Information**

Emission Unit Type : Fugitive

Type of Fugitive Emission : Fugitive Leaks at O&G

| Equipment and Service Type | Number of Each Equipment Type | Leak Rate (ppm) | Percent VOC |
|----------------------------|-------------------------------|-----------------|-------------|
| Valve; Gas | 20 | 0.01 | 19.400 |
| Flange; Gas | 168 | 0.01 | 19.400 |
| Connector; Gas | 674 | 0.01 | 19.400 |
| Other; Gas | 2 | 0.01 | 19.400 |
| Valve; Light Oil | 10 | 0.01 | 97.100 |
| Flange; Light Oil | 44 | 0.01 | 97.100 |
| Connector; Light Oil | 44 | 0.01 | 97.100 |
| Other; Light Oil | 2 | 0.01 | 97.100 |

- **Potential Operating Schedule** – Provide the operating schedule for this emissions unit

Hours/day : 24

Hours/year : 8760

- **Emissions Information** "Potential to emit" means the maximum capacity of a source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation is enforceable by the EPA and the Division. This term does not alter or affect the use of this term for any other purposes under the Act, or the term "capacity factor" as used in Title IV of the Act or the regulations promulgated thereunder.

Basis for Determination Options:

- *Manufacturer Data*
- *Test results for this source*
- *Similar source test results*
- *GRICalc*
- *Tanks Program*
- *AP-42*
- *Other. If this is selected, attach a document with a description of the method used.*

Criteria Pollutants :

| Pollutant | Pre-Controlled Potential | Efficiency Standards | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------------|----------------------|-----------------------------------|------------------------------------|--------------------------|
| | | | | | |
| | | | | | |

| | Emissions (tons/yr) | Potential to Emit (PTE)* | Units* | | | |
|---|---------------------|--------------------------|--------|---|---|-------|
| Particulate emissions (PE/PM) (formerly particulate matter, PM) | 0 | 0 | | 0 | 0 | |
| PM # 10 microns in diameter (PE/PM10) | 0 | 0 | | 0 | 0 | |
| PM # 2.5 microns in diameter (PE/PM2.5) | 0 | 0 | | 0 | 0 | |
| Sulfur dioxide (SO2) | 0 | 0 | | 0 | 0 | |
| Nitrogen oxides (NOx) | 0 | 0 | | 0 | 0 | |
| Carbon monoxide (CO) | 0 | 0 | | 0 | 0 | |
| Volatile organic compounds (VOC) | 1.0843 | 0 | | 0 | 0 | AP-42 |
| Lead (Pb) | 0 | 0 | | 0 | 0 | |
| Total Hazardous Air Pollutants (HAPs) | 0.1564 | 0 | | 0 | 0 | AP-42 |
| Fluoride (F) | 0 | 0 | | 0 | 0 | |
| Hydrogen Sulfide (H2S) | 0 | 0 | | 0 | 0 | |
| Mercury (Hg) | 0 | 0 | | 0 | 0 | |
| Total Reduced Sulfur (TRS) | 0 | 0 | | 0 | 0 | |
| Sulfuric Acid Mist (SAM) | 0 | 0 | | 0 | 0 | |

Hazardous Air Pollutants (HAPs) and Toxic Air Contaminants:

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |
| | | | | | | | |

Greenhouse Gases (GHGs):

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |
| | | | | | | | |

* Provide your calculations as an attachment and explain how all process variables and emissions factors were selected. Note the emission factor(s) employed and document origin. Example: AP-42, Table 4.4-3 (8/97); stack test, Method 5, 4/96; mass balance based on MSDS; etc.

** AQD Calculated - See 'Help' for more information.

- Best Available Control Technology (BACT)

Was a BACT Analysis completed for this unit? No

- Lowest Achievable Emission Rate (LAER)

Was a LAER Analysis completed for this unit? No

- Federal and State Rule Applicability

New Source Performance Standards (NSPS)
New Source Performance Standards are listed under 40

Not affected

CFR 60 - Standards of Performance for New Stationary Sources.

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 61)

Not affected

National Emissions Standards for Hazardous Air Pollutants (NESHAP Part 61) are listed under 40 CFR 61. (These include asbestos, benzene, beryllium, mercury, and vinyl chloride).

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63)

Not affected

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) standards are listed under 40 CFR 63.

Prevention of Significant Deterioration (PSD)

Not Affected

These rules are found under WAQSR Chapter 6, Section 4.

Non-Attainment New Source Review

Not Affected

These rules are found under WAQSR Chapter 6, Section 13.

- **Emission Unit Attachments**

| Required Attachment | Public Document Id | Attachment Type | Description |
|---------------------|--------------------|-----------------|-------------|
|---------------------|--------------------|-----------------|-------------|

Section II - Specific Air Contaminant Source Information

AQD EU ID: HET001

AQD EU description:

Company EU ID: Htr 24-70D

Company EU Description: Burner associated with the separator on t-pak

- **Source Installation or Modification Schedule** – Select reason(s) for this emissions unit being included in this application (must be completed regardless of date of installation or modification):

Construction(greenfield/new facility)

Date production began:

04/26/2015

- **Emission Unit Type Specific Information**

Emission Unit Type : Heater/Chiller

Fuel Sulfur Content : 0.00

Units : ppm

- **Potential Operating Schedule** – Provide the operating schedule for this emissions unit

Hours/day : 24

Hours/year : 8760

- **Emissions Information** "Potential to emit" means the maximum capacity of a source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation is enforceable by the EPA and the Division. This term does not alter or affect the use of this term for any other purposes under the Act, or the term "capacity factor" as used in Title IV of the Act or the regulations promulgated thereunder.

Basis for Determination Options:

- *Manufacturer Data*
- *Test results for this source*
- *Similar source test results*
- *GRICalc*
- *Tanks Program*
- *AP-42*
- *Other. If this is selected, attach a document with a description of the method used.*

Criteria Pollutants :

| Pollutant | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|---|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | Potential to Emit (PTE)* | Units* | | | |
| Particulate emissions (PE/PM) (formerly particulate matter, PM) | 0.0291 | 0 | | 0 | 0 | |
| PM # 10 microns in diameter (PE/PM10) | 0 | 0 | | 0 | 0 | |
| PM # 2.5 microns in diameter (PE/PM2.5) | 0 | 0 | | 0 | 0 | |
| Sulfur dioxide (SO2) | 0.0023 | 0 | | 0 | 0 | |
| | | | | | | |

| | | | | | | |
|---------------------------------------|--------|---|--|---|---|--|
| Nitrogen oxides (NOx) | 0.3835 | 0 | | 0 | 0 | |
| Carbon monoxide (CO) | 0.3222 | 0 | | 0 | 0 | |
| Volatile organic compounds (VOC) | 0.0211 | 0 | | 0 | 0 | |
| Lead (Pb) | 0 | 0 | | 0 | 0 | |
| Total Hazardous Air Pollutants (HAPs) | 0 | 0 | | 0 | 0 | |
| Fluoride (F) | 0 | 0 | | 0 | 0 | |
| Hydrogen Sulfide (H2S) | 0 | 0 | | 0 | 0 | |
| Mercury (Hg) | 0 | 0 | | 0 | 0 | |
| Total Reduced Sulfur (TRS) | 0 | 0 | | 0 | 0 | |
| Sulfuric Acid Mist (SAM) | 0 | 0 | | 0 | 0 | |

Hazardous Air Pollutants (HAPs) and Toxic Air Contaminants:

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|--------------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |
| Formaldehyde | VOC-HAP | 0.0003 | 0 | | 0.0001 | 0.0003 | AP-42 |

Greenhouse Gases (GHGs):

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |

* Provide your calculations as an attachment and explain how all process variables and emissions factors were selected. Note the emission factor(s) employed and document origin. Example: AP-42, Table 4.4-3 (8/97); stack test, Method 5, 4/96; mass balance based on MSDS; etc.

** AQD Calculated - See 'Help' for more information.

- Best Available Control Technology (BACT)

Was a BACT Analysis completed for this unit? No

- Lowest Achievable Emission Rate (LAER)

Was a LAER Analysis completed for this unit? No

- Federal and State Rule Applicability

New Source Performance Standards (NSPS) Not affected
New Source Performance Standards are listed under 40 CFR 60 - Standards of Performance for New Stationary Sources.

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 61) Not affected
National Emissions Standards for Hazardous Air Pollutants (NESHAP Part 61) are listed under 40 CFR 61. (These include asbestos, benzene, beryllium, mercury, and vinyl chloride).

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) Not affected

National Emission Standards for Hazardous Air Pollutants
(NESHAP Part 63) standards are listed under 40 CFR 63.

Prevention of Significant Deterioration (PSD) Not Affected
These rules are found under WAQSR Chapter 6, Section 4.

Non-Attainment New Source Review Not Affected
These rules are found under WAQSR Chapter 6, Section 13.

- **Emission Unit Attachments**

| Required Attachment | Public Document Id | Attachment Type | Description |
|---------------------|--------------------|-----------------|-------------|
|---------------------|--------------------|-----------------|-------------|

Section II - Specific Air Contaminant Source Information

AQD EU ID: HET002

AQD EU description:

Company EU ID: Htr 24-120D

Company EU Description: Burner associated with the separator on t-pak

- **Source Installation or Modification Schedule** – Select reason(s) for this emissions unit being included in this application (must be completed regardless of date of installation or modification):

Construction(greenfield/new facility)

Date production began:

04/26/2015

- **Emission Unit Type Specific Information**

Emission Unit Type : Heater/Chiller

Fuel Sulfur Content : 0.00

Units : ppm

- **Potential Operating Schedule** – Provide the operating schedule for this emissions unit

Hours/day : 24

Hours/year : 8760

- **Emissions Information** "Potential to emit" means the maximum capacity of a source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation is enforceable by the EPA and the Division. This term does not alter or affect the use of this term for any other purposes under the Act, or the term "capacity factor" as used in Title IV of the Act or the regulations promulgated thereunder.

Basis for Determination Options:

- *Manufacturer Data*
- *Test results for this source*
- *Similar source test results*
- *GRICalc*
- *Tanks Program*
- *AP-42*
- *Other. If this is selected, attach a document with a description of the method used.*

Criteria Pollutants :

| Pollutant | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|---|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | Potential to Emit (PTE)* | Units* | | | |
| Particulate emissions (PE/PM) (formerly particulate matter, PM) | 0.0291 | 0 | | 0 | 0 | |
| PM # 10 microns in diameter (PE/PM10) | 0 | 0 | | 0 | 0 | |
| PM # 2.5 microns in diameter (PE/PM2.5) | 0 | 0 | | 0 | 0 | |
| Sulfur dioxide (SO2) | 0.0023 | 0 | | 0 | 0 | |

| | | | | | | |
|---------------------------------------|--------|---|--|---|---|--|
| Nitrogen oxides (NOx) | 0.3835 | 0 | | 0 | 0 | |
| Carbon monoxide (CO) | 0.3222 | 0 | | 0 | 0 | |
| Volatile organic compounds (VOC) | 0.0211 | 0 | | 0 | 0 | |
| Lead (Pb) | 0 | 0 | | 0 | 0 | |
| Total Hazardous Air Pollutants (HAPs) | 0 | 0 | | 0 | 0 | |
| Fluoride (F) | 0 | 0 | | 0 | 0 | |
| Hydrogen Sulfide (H2S) | 0 | 0 | | 0 | 0 | |
| Mercury (Hg) | 0 | 0 | | 0 | 0 | |
| Total Reduced Sulfur (TRS) | 0 | 0 | | 0 | 0 | |
| Sulfuric Acid Mist (SAM) | 0 | 0 | | 0 | 0 | |

Hazardous Air Pollutants (HAPs) and Toxic Air Contaminants:

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|--------------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |
| Formaldehyde | VOC-HAP | 0.0003 | 0 | | 0.0001 | 0.0003 | AP-42 |

Greenhouse Gases (GHGs):

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |

* Provide your calculations as an attachment and explain how all process variables and emissions factors were selected. Note the emission factor(s) employed and document origin. Example: AP-42, Table 4.4-3 (8/97); stack test, Method 5, 4/96; mass balance based on MSDS; etc.

** AQD Calculated - See 'Help' for more information.

- Best Available Control Technology (BACT)

Was a BACT Analysis completed for this unit? No

- Lowest Achievable Emission Rate (LAER)

Was a LAER Analysis completed for this unit? No

- Federal and State Rule Applicability

New Source Performance Standards (NSPS) Not affected
New Source Performance Standards are listed under 40 CFR 60 - Standards of Performance for New Stationary Sources.

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 61) Not affected
National Emissions Standards for Hazardous Air Pollutants (NESHAP Part 61) are listed under 40 CFR 61. (These include asbestos, benzene, beryllium, mercury, and vinyl chloride).

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) Not affected

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) standards are listed under 40 CFR 63.

Prevention of Significant Deterioration (PSD)
These rules are found under WAQSR Chapter 6, Section 4.

Not Affected

Non-Attainment New Source Review
These rules are found under WAQSR Chapter 6, Section 13.

Not Affected

- **Emission Unit Attachments**

| Required Attachment | Public Document Id | Attachment Type | Description |
|---------------------|--------------------|-----------------|-------------|
|---------------------|--------------------|-----------------|-------------|

Section II - Specific Air Contaminant Source Information

AQD EU ID: HET003

AQD EU description:

Company EU ID: Htr 24-100D

Company EU Description: Burner associated with the separator on t-pak

- **Source Installation or Modification Schedule** – Select reason(s) for this emissions unit being included in this application (must be completed regardless of date of installation or modification):

Construction(greenfield/new facility)

Date production began:

04/26/2015

- **Emission Unit Type Specific Information**

Emission Unit Type : Heater/Chiller

Fuel Sulfur Content : 0.00

Units : ppm

- **Potential Operating Schedule** – Provide the operating schedule for this emissions unit

Hours/day : 24

Hours/year : 8760

- **Emissions Information** "Potential to emit" means the maximum capacity of a source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation is enforceable by the EPA and the Division. This term does not alter or affect the use of this term for any other purposes under the Act, or the term "capacity factor" as used in Title IV of the Act or the regulations promulgated thereunder.

Basis for Determination Options:

- *Manufacturer Data*
- *Test results for this source*
- *Similar source test results*
- *GRICalc*
- *Tanks Program*
- *AP-42*
- *Other. If this is selected, attach a document with a description of the method used.*

Criteria Pollutants :

| Pollutant | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|---|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | Potential to Emit (PTE)* | Units* | | | |
| Particulate emissions (PE/PM) (formerly particulate matter, PM) | 0.0291 | 0 | | 0 | 0 | |
| PM # 10 microns in diameter (PE/PM10) | 0 | 0 | | 0 | 0 | |
| PM # 2.5 microns in diameter (PE/PM2.5) | 0 | 0 | | 0 | 0 | |
| Sulfur dioxide (SO2) | 0.0023 | 0 | | 0 | 0 | |
| | | | | | | |

| | | | | | | |
|---------------------------------------|--------|---|--|---|---|--|
| Nitrogen oxides (NOx) | 0.3835 | 0 | | 0 | 0 | |
| Carbon monoxide (CO) | 0.3222 | 0 | | 0 | 0 | |
| Volatile organic compounds (VOC) | 0.0211 | 0 | | 0 | 0 | |
| Lead (Pb) | 0 | 0 | | 0 | 0 | |
| Total Hazardous Air Pollutants (HAPs) | 0 | 0 | | 0 | 0 | |
| Fluoride (F) | 0 | 0 | | 0 | 0 | |
| Hydrogen Sulfide (H2S) | 0 | 0 | | 0 | 0 | |
| Mercury (Hg) | 0 | 0 | | 0 | 0 | |
| Total Reduced Sulfur (TRS) | 0 | 0 | | 0 | 0 | |
| Sulfuric Acid Mist (SAM) | 0 | 0 | | 0 | 0 | |

Hazardous Air Pollutants (HAPs) and Toxic Air Contaminants:

| Pollutant | Pollutant Category | Pre- Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|--------------|--------------------|---|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |
| Formaldehyde | VOC-HAP | 0.0003 | 0 | | 0.0001 | 0.0003 | AP-42 |

Greenhouse Gases (GHGs):

| Pollutant | Pollutant Category | Pre- Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------|---|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |

* Provide your calculations as an attachment and explain how all process variables and emissions factors were selected. Note the emission factor(s) employed and document origin. Example: AP-42, Table 4.4-3 (8/97); stack test, Method 5, 4/96; mass balance based on MSDS; etc.

** AQD Calculated - See 'Help' for more information.

- Best Available Control Technology (BACT)

Was a BACT Analysis completed for this unit? No

- Lowest Achievable Emission Rate (LAER)

Was a LAER Analysis completed for this unit? No

- Federal and State Rule Applicability

New Source Performance Standards (NSPS) Not affected
New Source Performance Standards are listed under 40 CFR 60 - Standards of Performance for New Stationary Sources.

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 61) Not affected
National Emissions Standards for Hazardous Air Pollutants (NESHAP Part 61) are listed under 40 CFR 61. (These include asbestos, benzene, beryllium, mercury, and vinyl chloride).

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) Not affected

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) standards are listed under 40 CFR 63.

Prevention of Significant Deterioration (PSD) Not Affected
These rules are found under WAQSR Chapter 6, Section 4.

Non-Attainment New Source Review Not Affected
These rules are found under WAQSR Chapter 6, Section 13.

- **Emission Unit Attachments**

| Required Attachment | Public Document Id | Attachment Type | Description |
|---------------------|--------------------|-----------------|-------------|
|---------------------|--------------------|-----------------|-------------|

Section II - Specific Air Contaminant Source Information

AQD EU ID: HET004

AQD EU description:

Company EU ID: Htr 24-130D

Company EU Description: Burner associated with the separator on t-pak

- **Source Installation or Modification Schedule** – Select reason(s) for this emissions unit being included in this application (must be completed regardless of date of installation or modification):

Construction(greenfield/new facility)

Date production began:

04/26/2015

- **Emission Unit Type Specific Information**

Emission Unit Type : Heater/Chiller

Fuel Sulfur Content : 0.00

Units : ppm

- **Potential Operating Schedule** – Provide the operating schedule for this emissions unit

Hours/day : 24

Hours/year : 8760

- **Emissions Information** "Potential to emit" means the maximum capacity of a source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation is enforceable by the EPA and the Division. This term does not alter or affect the use of this term for any other purposes under the Act, or the term "capacity factor" as used in Title IV of the Act or the regulations promulgated thereunder.

Basis for Determination Options:

- *Manufacturer Data*
- *Test results for this source*
- *Similar source test results*
- *GRICalc*
- *Tanks Program*
- *AP-42*
- *Other. If this is selected, attach a document with a description of the method used.*

Criteria Pollutants :

| Pollutant | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|---|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | Potential to Emit (PTE)* | Units* | | | |
| Particulate emissions (PE/PM) (formerly particulate matter, PM) | 0.0291 | 0 | | 0 | 0 | |
| PM # 10 microns in diameter (PE/PM10) | 0 | 0 | | 0 | 0 | |
| PM # 2.5 microns in diameter (PE/PM2.5) | 0 | 0 | | 0 | 0 | |
| Sulfur dioxide (SO2) | 0.0023 | 0 | | 0 | 0 | |

| | | | | | | |
|---------------------------------------|--------|---|--|---|---|--|
| Nitrogen oxides (NOx) | 0.3835 | 0 | | 0 | 0 | |
| Carbon monoxide (CO) | 0.3222 | 0 | | 0 | 0 | |
| Volatile organic compounds (VOC) | 0.0211 | 0 | | 0 | 0 | |
| Lead (Pb) | 0 | 0 | | 0 | 0 | |
| Total Hazardous Air Pollutants (HAPs) | 0 | 0 | | 0 | 0 | |
| Fluoride (F) | 0 | 0 | | 0 | 0 | |
| Hydrogen Sulfide (H2S) | 0 | 0 | | 0 | 0 | |
| Mercury (Hg) | 0 | 0 | | 0 | 0 | |
| Total Reduced Sulfur (TRS) | 0 | 0 | | 0 | 0 | |
| Sulfuric Acid Mist (SAM) | 0 | 0 | | 0 | 0 | |

Hazardous Air Pollutants (HAPs) and Toxic Air Contaminants:

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|--------------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |
| Formaldehyde | VOC-HAP | 0.0003 | 0 | | 0.0001 | 0.0003 | AP-42 |

Greenhouse Gases (GHGs):

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |

* Provide your calculations as an attachment and explain how all process variables and emissions factors were selected. Note the emission factor(s) employed and document origin. Example: AP-42, Table 4.4-3 (8/97); stack test, Method 5, 4/96; mass balance based on MSDS; etc.

** AQD Calculated - See 'Help' for more information.

- Best Available Control Technology (BACT)

Was a BACT Analysis completed for this unit? No

- Lowest Achievable Emission Rate (LAER)

Was a LAER Analysis completed for this unit? No

- Federal and State Rule Applicability

New Source Performance Standards (NSPS) Not affected
New Source Performance Standards are listed under 40 CFR 60 - Standards of Performance for New Stationary Sources.

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 61) Not affected
National Emissions Standards for Hazardous Air Pollutants (NESHAP Part 61) are listed under 40 CFR 61. (These include asbestos, benzene, beryllium, mercury, and vinyl chloride).

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) Not affected

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) standards are listed under 40 CFR 63.

Prevention of Significant Deterioration (PSD) Not Affected
These rules are found under WAQSR Chapter 6, Section 4.

Non-Attainment New Source Review Not Affected
These rules are found under WAQSR Chapter 6, Section 13.

- **Emission Unit Attachments**

| Required Attachment | Public Document Id | Attachment Type | Description |
|---------------------|--------------------|-----------------|-------------|
|---------------------|--------------------|-----------------|-------------|

Section II - Specific Air Contaminant Source Information

AQD EU ID: HET005

AQD EU description:

Company EU ID: Htr 24-150D

Company EU Description: Burner associated with the separator on t-pak

- **Source Installation or Modification Schedule** – Select reason(s) for this emissions unit being included in this application (must be completed regardless of date of installation or modification):

Construction(greenfield/new facility)

Date production began:

04/26/2015

- **Emission Unit Type Specific Information**

Emission Unit Type : Heater/Chiller

Fuel Sulfur Content : 0.00

Units : ppm

- **Potential Operating Schedule** – Provide the operating schedule for this emissions unit

Hours/day : 24

Hours/year : 8760

- **Emissions Information** "Potential to emit" means the maximum capacity of a source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation is enforceable by the EPA and the Division. This term does not alter or affect the use of this term for any other purposes under the Act, or the term "capacity factor" as used in Title IV of the Act or the regulations promulgated thereunder.

Basis for Determination Options:

- *Manufacturer Data*
- *Test results for this source*
- *Similar source test results*
- *GRICalc*
- *Tanks Program*
- *AP-42*
- *Other. If this is selected, attach a document with a description of the method used.*

Criteria Pollutants :

| Pollutant | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|---|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | Potential to Emit (PTE)* | Units* | | | |
| Particulate emissions (PE/PM) (formerly particulate matter, PM) | 0.0291 | 0 | | 0 | 0 | |
| PM # 10 microns in diameter (PE/PM10) | 0 | 0 | | 0 | 0 | |
| PM # 2.5 microns in diameter (PE/PM2.5) | 0 | 0 | | 0 | 0 | |
| Sulfur dioxide (SO2) | 0.0023 | 0 | | 0 | 0 | |

| | | | | | | |
|---------------------------------------|--------|---|--|---|---|--|
| Nitrogen oxides (NOx) | 0.3835 | 0 | | 0 | 0 | |
| Carbon monoxide (CO) | 0.3222 | 0 | | 0 | 0 | |
| Volatile organic compounds (VOC) | 0.0211 | 0 | | 0 | 0 | |
| Lead (Pb) | 0 | 0 | | 0 | 0 | |
| Total Hazardous Air Pollutants (HAPs) | 0 | 0 | | 0 | 0 | |
| Fluoride (F) | 0 | 0 | | 0 | 0 | |
| Hydrogen Sulfide (H2S) | 0 | 0 | | 0 | 0 | |
| Mercury (Hg) | 0 | 0 | | 0 | 0 | |
| Total Reduced Sulfur (TRS) | 0 | 0 | | 0 | 0 | |
| Sulfuric Acid Mist (SAM) | 0 | 0 | | 0 | 0 | |

Hazardous Air Pollutants (HAPs) and Toxic Air Contaminants:

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|--------------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |
| Formaldehyde | VOC-HAP | 0.0003 | 0 | | 0.0001 | 0.0003 | AP-42 |

Greenhouse Gases (GHGs):

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |

* Provide your calculations as an attachment and explain how all process variables and emissions factors were selected. Note the emission factor(s) employed and document origin. Example: AP-42, Table 4.4-3 (8/97); stack test, Method 5, 4/96; mass balance based on MSDS; etc.

** AQD Calculated - See 'Help' for more information.

- Best Available Control Technology (BACT)

Was a BACT Analysis completed for this unit? No

- Lowest Achievable Emission Rate (LAER)

Was a LAER Analysis completed for this unit? No

- Federal and State Rule Applicability

New Source Performance Standards (NSPS) Not affected
New Source Performance Standards are listed under 40 CFR 60 - Standards of Performance for New Stationary Sources.

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 61) Not affected
National Emissions Standards for Hazardous Air Pollutants (NESHAP Part 61) are listed under 40 CFR 61. (These include asbestos, benzene, beryllium, mercury, and vinyl chloride).

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) Not affected

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) standards are listed under 40 CFR 63.

Prevention of Significant Deterioration (PSD) Not Affected
These rules are found under WAQSR Chapter 6, Section 4.

Non-Attainment New Source Review Not Affected
These rules are found under WAQSR Chapter 6, Section 13.

- **Emission Unit Attachments**

| Required Attachment | Public Document Id | Attachment Type | Description |
|---------------------|--------------------|-----------------|-------------|
|---------------------|--------------------|-----------------|-------------|

Section II - Specific Air Contaminant Source Information

AQD EU ID: HET006

AQD EU description:

Company EU ID: Line Htr 1

Company EU Description: Burner associated with the line heater

- **Source Installation or Modification Schedule** – Select reason(s) for this emissions unit being included in this application (must be completed regardless of date of installation or modification):

Construction(greenfield/new facility)

Date production began:

04/26/2015

- **Emission Unit Type Specific Information**

Emission Unit Type : Heater/Chiller

Fuel Sulfur Content : 0.00

Units : %

- **Potential Operating Schedule** – Provide the operating schedule for this emissions unit

Hours/day : 24

Hours/year : 8760

- **Emissions Information** "Potential to emit" means the maximum capacity of a source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation is enforceable by the EPA and the Division. This term does not alter or affect the use of this term for any other purposes under the Act, or the term "capacity factor" as used in Title IV of the Act or the regulations promulgated thereunder.

Basis for Determination Options:

- *Manufacturer Data*
- *Test results for this source*
- *Similar source test results*
- *GRICalc*
- *Tanks Program*
- *AP-42*
- *Other. If this is selected, attach a document with a description of the method used.*

Criteria Pollutants :

| Pollutant | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|---|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | Potential to Emit (PTE)* | Units* | | | |
| Particulate emissions (PE/PM) (formerly particulate matter, PM) | 0.0146 | 0 | | 0 | 0 | |
| PM # 10 microns in diameter (PE/PM10) | 0 | 0 | | 0 | 0 | |
| PM # 2.5 microns in diameter (PE/PM2.5) | 0 | 0 | | 0 | 0 | |
| Sulfur dioxide (SO2) | 0.0012 | 0 | | 0 | 0 | |

| | | | | | | |
|---------------------------------------|--------|---|--|---|---|--|
| Nitrogen oxides (NOx) | 0.1918 | 0 | | 0 | 0 | |
| Carbon monoxide (CO) | 0.1611 | 0 | | 0 | 0 | |
| Volatile organic compounds (VOC) | 0.0105 | 0 | | 0 | 0 | |
| Lead (Pb) | 0 | 0 | | 0 | 0 | |
| Total Hazardous Air Pollutants (HAPs) | 0 | 0 | | 0 | 0 | |
| Fluoride (F) | 0 | 0 | | 0 | 0 | |
| Hydrogen Sulfide (H2S) | 0 | 0 | | 0 | 0 | |
| Mercury (Hg) | 0 | 0 | | 0 | 0 | |
| Total Reduced Sulfur (TRS) | 0 | 0 | | 0 | 0 | |
| Sulfuric Acid Mist (SAM) | 0 | 0 | | 0 | 0 | |

Hazardous Air Pollutants (HAPs) and Toxic Air Contaminants:

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|--------------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |
| Formaldehyde | VOC-HAP | 0.0001 | 0 | | 0 | 0.0001 | AP-42 |

Greenhouse Gases (GHGs):

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |

* Provide your calculations as an attachment and explain how all process variables and emissions factors were selected. Note the emission factor(s) employed and document origin. Example: AP-42, Table 4.4-3 (8/97); stack test, Method 5, 4/96; mass balance based on MSDS; etc.

** AQD Calculated - See 'Help' for more information.

- Best Available Control Technology (BACT)

Was a BACT Analysis completed for this unit? No

- Lowest Achievable Emission Rate (LAER)

Was a LAER Analysis completed for this unit? No

- Federal and State Rule Applicability

New Source Performance Standards (NSPS) Not affected
New Source Performance Standards are listed under 40 CFR 60 - Standards of Performance for New Stationary Sources.

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 61) Not affected
National Emissions Standards for Hazardous Air Pollutants (NESHAP Part 61) are listed under 40 CFR 61. (These include asbestos, benzene, beryllium, mercury, and vinyl chloride).

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) Not affected

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) standards are listed under 40 CFR 63.

Prevention of Significant Deterioration (PSD) Not Affected
These rules are found under WAQSR Chapter 6, Section 4.

Non-Attainment New Source Review Not Affected
These rules are found under WAQSR Chapter 6, Section 13.

- **Emission Unit Attachments**

| Required Attachment | Public Document Id | Attachment Type | Description |
|---------------------|--------------------|-----------------|-------------|
|---------------------|--------------------|-----------------|-------------|

Section II - Specific Air Contaminant Source Information

AQD EU ID: HET007

AQD EU description:

Company EU ID: Line Htr 2

Company EU Description: Burner associated with the line heater

- **Source Installation or Modification Schedule** – Select reason(s) for this emissions unit being included in this application (must be completed regardless of date of installation or modification):

Construction(greenfield/new facility)

Date production began:

04/26/2015

- **Emission Unit Type Specific Information**

Emission Unit Type : Heater/Chiller

Fuel Sulfur Content : 0.00

Units : %

- **Potential Operating Schedule** – Provide the operating schedule for this emissions unit

Hours/day : 24

Hours/year : 8760

- **Emissions Information** "Potential to emit" means the maximum capacity of a source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation is enforceable by the EPA and the Division. This term does not alter or affect the use of this term for any other purposes under the Act, or the term "capacity factor" as used in Title IV of the Act or the regulations promulgated thereunder.

Basis for Determination Options:

- *Manufacturer Data*
- *Test results for this source*
- *Similar source test results*
- *GRICalc*
- *Tanks Program*
- *AP-42*
- *Other. If this is selected, attach a document with a description of the method used.*

Criteria Pollutants :

| Pollutant | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|---|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | Potential to Emit (PTE)* | Units* | | | |
| Particulate emissions (PE/PM) (formerly particulate matter, PM) | 0.0146 | 0 | | 0 | 0 | |
| PM # 10 microns in diameter (PE/PM10) | 0 | 0 | | 0 | 0 | |
| PM # 2.5 microns in diameter (PE/PM2.5) | 0 | 0 | | 0 | 0 | |
| Sulfur dioxide (SO2) | 0.0012 | 0 | | 0 | 0 | |
| | | | | | | |

| | | | | | | |
|---------------------------------------|--------|---|--|---|---|--|
| Nitrogen oxides (NOx) | 0.1918 | 0 | | 0 | 0 | |
| Carbon monoxide (CO) | 0.1611 | 0 | | 0 | 0 | |
| Volatile organic compounds (VOC) | 0.0105 | 0 | | 0 | 0 | |
| Lead (Pb) | 0 | 0 | | 0 | 0 | |
| Total Hazardous Air Pollutants (HAPs) | 0 | 0 | | 0 | 0 | |
| Fluoride (F) | 0 | 0 | | 0 | 0 | |
| Hydrogen Sulfide (H2S) | 0 | 0 | | 0 | 0 | |
| Mercury (Hg) | 0 | 0 | | 0 | 0 | |
| Total Reduced Sulfur (TRS) | 0 | 0 | | 0 | 0 | |
| Sulfuric Acid Mist (SAM) | 0 | 0 | | 0 | 0 | |

Hazardous Air Pollutants (HAPs) and Toxic Air Contaminants:

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|--------------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |
| Formaldehyde | VOC-HAP | 0.0001 | 0 | | 0 | 0.0001 | AP-42 |

Greenhouse Gases (GHGs):

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |

* Provide your calculations as an attachment and explain how all process variables and emissions factors were selected. Note the emission factor(s) employed and document origin. Example: AP-42, Table 4.4-3 (8/97); stack test, Method 5, 4/96; mass balance based on MSDS; etc.

** AQD Calculated - See 'Help' for more information.

- Best Available Control Technology (BACT)

Was a BACT Analysis completed for this unit? No

- Lowest Achievable Emission Rate (LAER)

Was a LAER Analysis completed for this unit? No

- Federal and State Rule Applicability

New Source Performance Standards (NSPS) Not affected
New Source Performance Standards are listed under 40 CFR 60 - Standards of Performance for New Stationary Sources.

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 61) Not affected
National Emissions Standards for Hazardous Air Pollutants (NESHAP Part 61) are listed under 40 CFR 61. (These include asbestos, benzene, beryllium, mercury, and vinyl chloride).

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) Not affected

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) standards are listed under 40 CFR 63.

Prevention of Significant Deterioration (PSD) Not Affected
These rules are found under WAQSR Chapter 6, Section 4.

Non-Attainment New Source Review Not Affected
These rules are found under WAQSR Chapter 6, Section 13.

- **Emission Unit Attachments**

| Required Attachment | Public Document Id | Attachment Type | Description |
|---------------------|--------------------|-----------------|-------------|
|---------------------|--------------------|-----------------|-------------|

Section II - Specific Air Contaminant Source Information

AQD EU ID: HET008

AQD EU description:

Company EU ID: Htr 24-110D

Company EU Description: Burner associated with the separator on t-pak

- **Source Installation or Modification Schedule** – Select reason(s) for this emissions unit being included in this application (must be completed regardless of date of installation or modification):

Construction(greenfield/new facility)

Date production began:

04/26/2015

- **Emission Unit Type Specific Information**

Emission Unit Type : Heater/Chiller

Fuel Sulfur Content : 0.00

Units : ppm

- **Potential Operating Schedule** – Provide the operating schedule for this emissions unit

Hours/day : 24

Hours/year : 8760

- **Emissions Information** "Potential to emit" means the maximum capacity of a source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation is enforceable by the EPA and the Division. This term does not alter or affect the use of this term for any other purposes under the Act, or the term "capacity factor" as used in Title IV of the Act or the regulations promulgated thereunder.

Basis for Determination Options:

- *Manufacturer Data*
- *Test results for this source*
- *Similar source test results*
- *GRICalc*
- *Tanks Program*
- *AP-42*
- *Other. If this is selected, attach a document with a description of the method used.*

Criteria Pollutants :

| Pollutant | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|---|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | Potential to Emit (PTE)* | Units* | | | |
| Particulate emissions (PE/PM) (formerly particulate matter, PM) | 0.0291 | 0 | | 0 | 0 | |
| PM # 10 microns in diameter (PE/PM10) | 0 | 0 | | 0 | 0 | |
| PM # 2.5 microns in diameter (PE/PM2.5) | 0 | 0 | | 0 | 0 | |
| Sulfur dioxide (SO2) | 0.0023 | 0 | | 0 | 0 | |

| | | | | | | |
|---------------------------------------|--------|---|--|---|---|--|
| Nitrogen oxides (NOx) | 0.3835 | 0 | | 0 | 0 | |
| Carbon monoxide (CO) | 0.3222 | 0 | | 0 | 0 | |
| Volatile organic compounds (VOC) | 0.0211 | 0 | | 0 | 0 | |
| Lead (Pb) | 0 | 0 | | 0 | 0 | |
| Total Hazardous Air Pollutants (HAPs) | 0 | 0 | | 0 | 0 | |
| Fluoride (F) | 0 | 0 | | 0 | 0 | |
| Hydrogen Sulfide (H2S) | 0 | 0 | | 0 | 0 | |
| Mercury (Hg) | 0 | 0 | | 0 | 0 | |
| Total Reduced Sulfur (TRS) | 0 | 0 | | 0 | 0 | |
| Sulfuric Acid Mist (SAM) | 0 | 0 | | 0 | 0 | |

Hazardous Air Pollutants (HAPs) and Toxic Air Contaminants:

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|--------------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |
| Formaldehyde | VOC-HAP | 0.0003 | 0 | | 0.0001 | 0.0003 | AP-42 |

Greenhouse Gases (GHGs):

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |

* Provide your calculations as an attachment and explain how all process variables and emissions factors were selected. Note the emission factor(s) employed and document origin. Example: AP-42, Table 4.4-3 (8/97); stack test, Method 5, 4/96; mass balance based on MSDS; etc.

** AQD Calculated - See 'Help' for more information.

- Best Available Control Technology (BACT)

Was a BACT Analysis completed for this unit? No

- Lowest Achievable Emission Rate (LAER)

Was a LAER Analysis completed for this unit? No

- Federal and State Rule Applicability

New Source Performance Standards (NSPS) Not affected
New Source Performance Standards are listed under 40 CFR 60 - Standards of Performance for New Stationary Sources.

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 61) Not affected
National Emissions Standards for Hazardous Air Pollutants (NESHAP Part 61) are listed under 40 CFR 61. (These include asbestos, benzene, beryllium, mercury, and vinyl chloride).

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) Not affected

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) standards are listed under 40 CFR 63.

Prevention of Significant Deterioration (PSD) Not Affected
These rules are found under WAQSR Chapter 6, Section 4.

Non-Attainment New Source Review Not Affected
These rules are found under WAQSR Chapter 6, Section 13.

- **Emission Unit Attachments**

| Required Attachment | Public Document Id | Attachment Type | Description |
|---------------------|--------------------|-----------------|-------------|
|---------------------|--------------------|-----------------|-------------|

Section II - Specific Air Contaminant Source Information

AQD EU ID: HET009

AQD EU description:

Company EU ID: Htr 24-140D

Company EU Description: Burner associated with the separator on t-pak

- **Source Installation or Modification Schedule** – Select reason(s) for this emissions unit being included in this application (must be completed regardless of date of installation or modification):

Construction(greenfield/new facility)

Date production began:

04/26/2015

- **Emission Unit Type Specific Information**

Emission Unit Type : Heater/Chiller

Fuel Sulfur Content : 0.00

Units : ppm

- **Potential Operating Schedule** – Provide the operating schedule for this emissions unit

Hours/day : 24

Hours/year : 8760

- **Emissions Information** "Potential to emit" means the maximum capacity of a source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation is enforceable by the EPA and the Division. This term does not alter or affect the use of this term for any other purposes under the Act, or the term "capacity factor" as used in Title IV of the Act or the regulations promulgated thereunder.

Basis for Determination Options:

- *Manufacturer Data*
- *Test results for this source*
- *Similar source test results*
- *GRICalc*
- *Tanks Program*
- *AP-42*
- *Other. If this is selected, attach a document with a description of the method used.*

Criteria Pollutants :

| Pollutant | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|---|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | Potential to Emit (PTE)* | Units* | | | |
| Particulate emissions (PE/PM) (formerly particulate matter, PM) | 0.0291 | 0 | | 0 | 0 | |
| PM # 10 microns in diameter (PE/PM10) | 0 | 0 | | 0 | 0 | |
| PM # 2.5 microns in diameter (PE/PM2.5) | 0 | 0 | | 0 | 0 | |
| Sulfur dioxide (SO2) | 0.0023 | 0 | | 0 | 0 | |
| | | | | | | |

| | | | | | | |
|---------------------------------------|--------|---|--|---|---|--|
| Nitrogen oxides (NOx) | 0.3835 | 0 | | 0 | 0 | |
| Carbon monoxide (CO) | 0.3222 | 0 | | 0 | 0 | |
| Volatile organic compounds (VOC) | 0.0211 | 0 | | 0 | 0 | |
| Lead (Pb) | 0 | 0 | | 0 | 0 | |
| Total Hazardous Air Pollutants (HAPs) | 0 | 0 | | 0 | 0 | |
| Fluoride (F) | 0 | 0 | | 0 | 0 | |
| Hydrogen Sulfide (H2S) | 0 | 0 | | 0 | 0 | |
| Mercury (Hg) | 0 | 0 | | 0 | 0 | |
| Total Reduced Sulfur (TRS) | 0 | 0 | | 0 | 0 | |
| Sulfuric Acid Mist (SAM) | 0 | 0 | | 0 | 0 | |

Hazardous Air Pollutants (HAPs) and Toxic Air Contaminants:

| Pollutant | Pollutant Category | Pre- Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determinati on* |
|--------------|--------------------|---|-----------------------------|--------|---|--|---------------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |
| Formaldehyde | VOC-HAP | 0.0003 | 0 | | 0.0001 | 0.0003 | AP-42 |

Greenhouse Gases (GHGs):

| Pollutant | Pollutant Category | Pre- Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determinati on* |
|-----------|--------------------|---|-----------------------------|--------|---|--|---------------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |

* Provide your calculations as an attachment and explain how all process variables and emissions factors were selected. Note the emission factor(s) employed and document origin. Example: AP-42, Table 4.4-3 (8/97); stack test, Method 5, 4/96; mass balance based on MSDS; etc.

** AQD Calculated - See 'Help' for more information.

- Best Available Control Technology (BACT)

Was a BACT Analysis completed for this unit? No

- Lowest Achievable Emission Rate (LAER)

Was a LAER Analysis completed for this unit? No

- Federal and State Rule Applicability

New Source Performance Standards (NSPS) Not affected
New Source Performance Standards are listed under 40 CFR 60 - Standards of Performance for New Stationary Sources.

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 61) Not affected
National Emissions Standards for Hazardous Air Pollutants (NESHAP Part 61) are listed under 40 CFR 61. (These include asbestos, benzene, beryllium, mercury, and vinyl chloride).

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) Not affected

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) standards are listed under 40 CFR 63.

Prevention of Significant Deterioration (PSD) Not Affected
These rules are found under WAQSR Chapter 6, Section 4.

Non-Attainment New Source Review Not Affected
These rules are found under WAQSR Chapter 6, Section 13.

- **Emission Unit Attachments**

| Required Attachment | Public Document Id | Attachment Type | Description |
|---------------------|--------------------|-----------------|-------------|
|---------------------|--------------------|-----------------|-------------|

Section II - Specific Air Contaminant Source Information

AQD EU ID: LUD001

AQD EU description:

Company EU ID: Truck Load

Company EU Description: Loading / Unloading occurs at the onsite storage tanks by a fluid hauling truck. Emissions from loading are estimated using EPA's AP-42.

- **Source Installation or Modification Schedule** – Select reason(s) for this emissions unit being included in this application (must be completed regardless of date of installation or modification):

Construction(greenfield/new facility)

Date production began:

04/26/2015

- **Emission Unit Type Specific Information**

Emission Unit Type : Loading/Unloading/Dump

Maximum Hourly Throughput 14000

Units : gallons/hr

Detailed Description of Loading / Unloading occurs at the onsite storage tanks by a fluid hauling truck. Emissions from loading are estimated using EPA's AP-42

**Provide detailed calculations documenting the potential emissions and emission factors used to calculate emissions from this source.*

- **Potential Operating Schedule** – Provide the operating schedule for this emissions unit

Hours/day : 24

Hours/year : 8760

- **Emissions Information** "Potential to emit" means the maximum capacity of a source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation is enforceable by the EPA and the Division. This term does not alter or affect the use of this term for any other purposes under the Act, or the term "capacity factor" as used in Title IV of the Act or the regulations promulgated thereunder.

Basis for Determination Options:

- *Manufacturer Data*
- *Test results for this source*
- *Similar source test results*
- *GRICalc*
- *Tanks Program*
- *AP-42*
- *Other. If this is selected, attach a document with a description of the method used.*

Criteria Pollutants :

| Pollutant | Pre-Controlled Potential Emissions | Efficiency Standards | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|------------------------------------|----------------------|-----------------------------------|------------------------------------|--------------------------|
| | | | | | |
| | | | | | |

| | (tons/yr) | Potential to Emit (PTE)* | Units* | | | |
|---|-----------|--------------------------|--------|---------|--------|-------|
| Particulate emissions (PE/PM) (formerly particulate matter, PM) | 0 | 0 | | 0 | 0 | |
| PM # 10 microns in diameter (PE/PM10) | 0 | 0 | | 0 | 0 | |
| PM # 2.5 microns in diameter (PE/PM2.5) | 0 | 0 | | 0 | 0 | |
| Sulfur dioxide (SO2) | 0 | 0 | | 0 | 0 | |
| Nitrogen oxides (NOx) | 0 | 0 | | 0 | 0 | |
| Carbon monoxide (CO) | 0 | 0 | | 0 | 0 | |
| Volatile organic compounds (VOC) | 0 | 0 | | 23.7714 | 0.6352 | Other |
| Lead (Pb) | 0 | 0 | | 0 | 0 | |
| Total Hazardous Air Pollutants (HAPs) | 0 | 0 | | 5.3093 | 0.1419 | Other |
| Fluoride (F) | 0 | 0 | | 0 | 0 | |
| Hydrogen Sulfide (H2S) | 0 | 0 | | 0 | 0 | |
| Mercury (Hg) | 0 | 0 | | 0 | 0 | |
| Total Reduced Sulfur (TRS) | 0 | 0 | | 0 | 0 | |
| Sulfuric Acid Mist (SAM) | 0 | 0 | | 0 | 0 | |

Hazardous Air Pollutants (HAPs) and Toxic Air Contaminants:

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |
| | | | | | | | |

Greenhouse Gases (GHGs):

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |
| | | | | | | | |

* Provide your calculations as an attachment and explain how all process variables and emissions factors were selected. Note the emission factor(s) employed and document origin. Example: AP-42, Table 4.4-3 (8/97); stack test, Method 5, 4/96; mass balance based on MSDS; etc.

** AQD Calculated - See 'Help' for more information.

- Best Available Control Technology (BACT)

Was a BACT Analysis completed for this unit? No

- Lowest Achievable Emission Rate (LAER)

Was a LAER Analysis completed for this unit? No

- Federal and State Rule Applicability

New Source Performance Standards (NSPS)
New Source Performance Standards are listed under 40

Not affected

CFR 60 - Standards of Performance for New Stationary Sources.

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 61)

Not affected

National Emissions Standards for Hazardous Air Pollutants (NESHAP Part 61) are listed under 40 CFR 61. (These include asbestos, benzene, beryllium, mercury, and vinyl chloride).

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63)

Not affected

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) standards are listed under 40 CFR 63.

Prevention of Significant Deterioration (PSD)

Not Affected

These rules are found under WAQSR Chapter 6, Section 4.

Non-Attainment New Source Review

Not Affected

These rules are found under WAQSR Chapter 6, Section 13.

- **Emission Unit Attachments**

| Required Attachment | Public Document Id | Attachment Type | Description |
|---------------------|--------------------|-----------------|-------------|
|---------------------|--------------------|-----------------|-------------|

Section II - Specific Air Contaminant Source Information

AQD EU ID: PNE001

AQD EU description:

Company EU ID: Glycol Pump

Company EU Description: 4 Heat Medium Pumps - Sandpiper (1 inch)

- **Source Installation or Modification Schedule** – Select reason(s) for this emissions unit being included in this application (must be completed regardless of date of installation or modification):

Construction(greenfield/new facility)

Date production began:

04/26/2015

- **Emission Unit Type Specific Information**

Emission Unit Type : Pneumatic Equipment

Motive Force : Field Gas

VOC Content (%) : 14.757

HAP Content (%) : 0.573

- **Potential Operating Schedule** – Provide the operating schedule for this emissions unit

Hours/day : 24

Hours/year : 6696

- **Emissions Information** "Potential to emit" means the maximum capacity of a source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation is enforceable by the EPA and the Division. This term does not alter or affect the use of this term for any other purposes under the Act, or the term "capacity factor" as used in Title IV of the Act or the regulations promulgated thereunder.

Basis for Determination Options:

- *Manufacturer Data*
- *Test results for this source*
- *Similar source test results*
- *GRICalc*
- *Tanks Program*
- *AP-42*
- *Other. If this is selected, attach a document with a description of the method used.*

Criteria Pollutants :

| Pollutant | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|---|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | Potential to Emit (PTE)* | Units* | | | |
| Particulate emissions (PE/PM) (formerly particulate matter, PM) | 0 | 0 | | 0 | 0 | |
| PM # 10 microns in diameter (PE/PM10) | 0 | 0 | | 0 | 0 | |
| PM # 2.5 microns in diameter (PE/PM2.5) | 0 | 0 | | 0 | 0 | |
| | | | | | | |

| | | | | | | |
|---------------------------------------|---------|---|--|------|------|-------|
| Sulfur dioxide (SO2) | 0 | 0 | | 0 | 0 | |
| Nitrogen oxides (NOx) | 0 | 0 | | 0 | 0 | |
| Carbon monoxide (CO) | 0 | 0 | | 0 | 0 | |
| Volatile organic compounds (VOC) | 13.0909 | 0 | | 0.06 | 0.26 | Other |
| Lead (Pb) | 0 | 0 | | 0 | 0 | |
| Total Hazardous Air Pollutants (HAPs) | 0.5087 | 0 | | 0 | 0.01 | Other |
| Fluoride (F) | 0 | 0 | | 0 | 0 | |
| Hydrogen Sulfide (H2S) | 0 | 0 | | 0 | 0 | |
| Mercury (Hg) | 0 | 0 | | 0 | 0 | |
| Total Reduced Sulfur (TRS) | 0 | 0 | | 0 | 0 | |
| Sulfuric Acid Mist (SAM) | 0 | 0 | | 0 | 0 | |

Hazardous Air Pollutants (HAPs) and Toxic Air Contaminants:

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |

Greenhouse Gases (GHGs):

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |

* Provide your calculations as an attachment and explain how all process variables and emissions factors were selected. Note the emission factor(s) employed and document origin. Example: AP-42, Table 4.4-3 (8/97); stack test, Method 5, 4/96; mass balance based on MSDS; etc.

** AQD Calculated - See 'Help' for more information.

- Best Available Control Technology (BACT)

Was a BACT Analysis completed for this unit? No

- Lowest Achievable Emission Rate (LAER)

Was a LAER Analysis completed for this unit? No

- Federal and State Rule Applicability

New Source Performance Standards (NSPS) Not affected
New Source Performance Standards are listed under 40 CFR 60 - Standards of Performance for New Stationary Sources.

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 61) Not affected
National Emissions Standards for Hazardous Air Pollutants (NESHAP Part 61) are listed under 40 CFR 61. (These include asbestos, benzene, beryllium, mercury, and vinyl chloride).

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) Not affected

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) standards are listed under 40 CFR 63.

Prevention of Significant Deterioration (PSD) Not Affected
These rules are found under WAQSR Chapter 6, Section 4.

Non-Attainment New Source Review Not Affected
These rules are found under WAQSR Chapter 6, Section 13.

- **Emission Unit Attachments**

| Required Attachment | Public Document Id | Attachment Type | Description |
|---------------------|--------------------|-----------------|-------------|
|---------------------|--------------------|-----------------|-------------|

Section II - Specific Air Contaminant Source Information

AQD EU ID: PNE002

AQD EU description:

Company EU ID: Chem Pump

Company EU Description: 4 Solar TxAm
Chemical Pumps

- **Source Installation or Modification Schedule** – Select reason(s) for this emissions unit being included in this application (must be completed regardless of date of installation or modification):

Construction(greenfield/new facility)

Date production began:

04/26/2015

- **Emission Unit Type Specific Information**

Emission Unit Type : Pneumatic Equipment

Motive Force : Air

VOC Content (%) : 0.000

HAP Content (%) : 0.000

- **Potential Operating Schedule** – Provide the operating schedule for this emissions unit

Hours/day : 24

Hours/year : 8760

- **Emissions Information** "Potential to emit" means the maximum capacity of a source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation is enforceable by the EPA and the Division. This term does not alter or affect the use of this term for any other purposes under the Act, or the term "capacity factor" as used in Title IV of the Act or the regulations promulgated thereunder.

Basis for Determination Options:

- *Manufacturer Data*
- *Test results for this source*
- *Similar source test results*
- *GRICalc*
- *Tanks Program*
- *AP-42*
- *Other. If this is selected, attach a document with a description of the method used.*

Criteria Pollutants :

| Pollutant | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|---|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | Potential to Emit (PTE)* | Units* | | | |
| Particulate emissions (PE/PM) (formerly particulate matter, PM) | 0 | 0 | | 0 | 0 | |
| PM # 10 microns in diameter (PE/PM10) | 0 | 0 | | 0 | 0 | |
| PM # 2.5 microns in diameter (PE/PM2.5) | 0 | 0 | | 0 | 0 | |
| Sulfur dioxide (SO2) | 0 | 0 | | 0 | 0 | |

| | | | | | | |
|---------------------------------------|---|---|--|---|---|--|
| Nitrogen oxides (NOx) | 0 | 0 | | 0 | 0 | |
| Carbon monoxide (CO) | 0 | 0 | | 0 | 0 | |
| Volatile organic compounds (VOC) | 0 | 0 | | 0 | 0 | |
| Lead (Pb) | 0 | 0 | | 0 | 0 | |
| Total Hazardous Air Pollutants (HAPs) | 0 | 0 | | 0 | 0 | |
| Fluoride (F) | 0 | 0 | | 0 | 0 | |
| Hydrogen Sulfide (H2S) | 0 | 0 | | 0 | 0 | |
| Mercury (Hg) | 0 | 0 | | 0 | 0 | |
| Total Reduced Sulfur (TRS) | 0 | 0 | | 0 | 0 | |
| Sulfuric Acid Mist (SAM) | 0 | 0 | | 0 | 0 | |

Hazardous Air Pollutants (HAPs) and Toxic Air Contaminants:

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |

Greenhouse Gases (GHGs):

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |

* Provide your calculations as an attachment and explain how all process variables and emissions factors were selected. Note the emission factor(s) employed and document origin. Example: AP-42, Table 4.4-3 (8/97); stack test, Method 5, 4/96; mass balance based on MSDS; etc.

** AQD Calculated - See 'Help' for more information.

- Best Available Control Technology (BACT)

Was a BACT Analysis completed for this unit? No

- Lowest Achievable Emission Rate (LAER)

Was a LAER Analysis completed for this unit? No

- Federal and State Rule Applicability

New Source Performance Standards (NSPS) Not affected
New Source Performance Standards are listed under 40 CFR 60 - Standards of Performance for New Stationary Sources.

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 61) Not affected
National Emissions Standards for Hazardous Air Pollutants (NESHAP Part 61) are listed under 40 CFR 61. (These include asbestos, benzene, beryllium, mercury, and vinyl chloride).

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) Not affected
National Emission Standards for Hazardous Air Pollutants

(NESHAP Part 63) standards are listed under 40 CFR 63.

Prevention of Significant Deterioration (PSD)

These rules are found under WAQSR Chapter 6, Section 4.

Not Affected

Non-Attainment New Source Review

These rules are found under WAQSR Chapter 6, Section 13.

Not Affected

- **Emission Unit Attachments**

| Required Attachment | Public Document Id | Attachment Type | Description |
|---------------------|--------------------|-----------------|-------------|
|---------------------|--------------------|-----------------|-------------|

Section II - Specific Air Contaminant Source Information

AQD EU ID: PNE003

AQD EU description:

Company EU ID: Controllers

Company EU Description: Thirty seven low bleed/ no bleed pneumatic controllers

- **Source Installation or Modification Schedule** – Select reason(s) for this emissions unit being included in this application (must be completed regardless of date of installation or modification):

Construction(greenfield/new facility)

Date production began:

04/26/2015

- **Emission Unit Type Specific Information**

Emission Unit Type : Pneumatic Equipment

Motive Force : Field Gas

VOC Content (%) : 14.757

HAP Content (%) : 0.573

- **Potential Operating Schedule** – Provide the operating schedule for this emissions unit

Hours/day : 24

Hours/year : 8760

- **Emissions Information** "Potential to emit" means the maximum capacity of a source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation is enforceable by the EPA and the Division. This term does not alter or affect the use of this term for any other purposes under the Act, or the term "capacity factor" as used in Title IV of the Act or the regulations promulgated thereunder.

Basis for Determination Options:

- *Manufacturer Data*
- *Test results for this source*
- *Similar source test results*
- *GRICalc*
- *Tanks Program*
- *AP-42*
- *Other. If this is selected, attach a document with a description of the method used.*

Criteria Pollutants :

| Pollutant | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|---|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | Potential to Emit (PTE)* | Units* | | | |
| Particulate emissions (PE/PM) (formerly particulate matter, PM) | 0 | 0 | | 0 | 0 | |
| PM # 10 microns in diameter (PE/PM10) | 0 | 0 | | 0 | 0 | |
| PM # 2.5 microns in diameter (PE/PM2.5) | 0 | 0 | | 0 | 0 | |

| | | | | | | |
|---------------------------------------|---|---|--|---|---|--|
| Sulfur dioxide (SO2) | 0 | 0 | | 0 | 0 | |
| Nitrogen oxides (NOx) | 0 | 0 | | 0 | 0 | |
| Carbon monoxide (CO) | 0 | 0 | | 0 | 0 | |
| Volatile organic compounds (VOC) | 0 | 0 | | 0 | 0 | |
| Lead (Pb) | 0 | 0 | | 0 | 0 | |
| Total Hazardous Air Pollutants (HAPs) | 0 | 0 | | 0 | 0 | |
| Fluoride (F) | 0 | 0 | | 0 | 0 | |
| Hydrogen Sulfide (H2S) | 0 | 0 | | 0 | 0 | |
| Mercury (Hg) | 0 | 0 | | 0 | 0 | |
| Total Reduced Sulfur (TRS) | 0 | 0 | | 0 | 0 | |
| Sulfuric Acid Mist (SAM) | 0 | 0 | | 0 | 0 | |

Hazardous Air Pollutants (HAPs) and Toxic Air Contaminants:

| Pollutant | Pollutant Category | Pre- Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determinati on* |
|-----------|--------------------|---|-----------------------------|--------|---|--|---------------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |

Greenhouse Gases (GHGs):

| Pollutant | Pollutant Category | Pre- Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determinati on* |
|-----------|--------------------|---|-----------------------------|--------|---|--|---------------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |

* Provide your calculations as an attachment and explain how all process variables and emissions factors were selected. Note the emission factor(s) employed and document origin. Example: AP-42, Table 4.4-3 (8/97); stack test, Method 5, 4/96; mass balance based on MSDS; etc.

** AQD Calculated - See 'Help' for more information.

- Best Available Control Technology (BACT)

Was a BACT Analysis completed for this unit? No

- Lowest Achievable Emission Rate (LAER)

Was a LAER Analysis completed for this unit? No

- Federal and State Rule Applicability

New Source Performance Standards (NSPS) Not affected
New Source Performance Standards are listed under 40 CFR 60 - Standards of Performance for New Stationary Sources.

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 61) Not affected
National Emissions Standards for Hazardous Air Pollutants (NESHAP Part 61) are listed under 40 CFR 61. (These include asbestos, benzene, beryllium, mercury, and vinyl chloride).

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) Not affected

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) standards are listed under 40 CFR 63.

Prevention of Significant Deterioration (PSD) Not Affected
These rules are found under WAQSR Chapter 6, Section 4.

Non-Attainment New Source Review Not Affected
These rules are found under WAQSR Chapter 6, Section 13.

- **Emission Unit Attachments**

| Required Attachment | Public Document Id | Attachment Type | Description |
|---------------------|--------------------|-----------------|-------------|
|---------------------|--------------------|-----------------|-------------|

Section II - Specific Air Contaminant Source Information

AQD EU ID: SEP001

AQD EU description:

Company EU ID: Separators

Company EU Description: Eight (8) separators onsite (heaters are represented separately); there are seven separators in the individual t-paks and one in the line heater

- **Source Installation or Modification Schedule** – Select reason(s) for this emissions unit being included in this application (must be completed regardless of date of installation or modification):

Construction(greenfield/new facility)

Date production began:

04/26/2015

- **Emission Unit Type Specific Information**

Emission Unit Type : Separator/Treater

Operating Temperature (F) : 70

Operating Pressure (psig) : 275.00

- **Potential Operating Schedule** – Provide the operating schedule for this emissions unit

Hours/day : 24

Hours/year : 8760

- **Emissions Information** "Potential to emit" means the maximum capacity of a source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation is enforceable by the EPA and the Division. This term does not alter or affect the use of this term for any other purposes under the Act, or the term "capacity factor" as used in Title IV of the Act or the regulations promulgated thereunder.

Basis for Determination Options:

- *Manufacturer Data*
- *Test results for this source*
- *Similar source test results*
- *GRICalc*
- *Tanks Program*
- *AP-42*
- *Other. If this is selected, attach a document with a description of the method used.*

Criteria Pollutants :

| Pollutant | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|---|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | Potential to Emit (PTE)* | Units* | | | |
| Particulate emissions (PE/PM) (formerly particulate matter, PM) | 0 | 0 | | 0 | 0 | |

| | | | | | | |
|---|---|---|--|---|---|--|
| PM # 10 microns in diameter (PE/PM10) | 0 | 0 | | 0 | 0 | |
| PM # 2.5 microns in diameter (PE/PM2.5) | 0 | 0 | | 0 | 0 | |
| Sulfur dioxide (SO2) | 0 | 0 | | 0 | 0 | |
| Nitrogen oxides (NOx) | 0 | 0 | | 0 | 0 | |
| Carbon monoxide (CO) | 0 | 0 | | 0 | 0 | |
| Volatile organic compounds (VOC) | 0 | 0 | | 0 | 0 | |
| Lead (Pb) | 0 | 0 | | 0 | 0 | |
| Total Hazardous Air Pollutants (HAPs) | 0 | 0 | | 0 | 0 | |
| Fluoride (F) | 0 | 0 | | 0 | 0 | |
| Hydrogen Sulfide (H2S) | 0 | 0 | | 0 | 0 | |
| Mercury (Hg) | 0 | 0 | | 0 | 0 | |
| Total Reduced Sulfur (TRS) | 0 | 0 | | 0 | 0 | |
| Sulfuric Acid Mist (SAM) | 0 | 0 | | 0 | 0 | |

Hazardous Air Pollutants (HAPs) and Toxic Air Contaminants:

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |

Greenhouse Gases (GHGs):

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |

* Provide your calculations as an attachment and explain how all process variables and emissions factors were selected. Note the emission factor(s) employed and document origin. Example: AP-42, Table 4.4-3 (8/97); stack test, Method 5, 4/96; mass balance based on MSDS; etc.

** AQD Calculated - See 'Help' for more information.

- Best Available Control Technology (BACT)

Was a BACT Analysis completed for this unit? No

- Lowest Achievable Emission Rate (LAER)

Was a LAER Analysis completed for this unit? No

- Federal and State Rule Applicability

New Source Performance Standards (NSPS) Not affected
New Source Performance Standards are listed under 40 CFR 60 - Standards of Performance for New Stationary Sources.

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 61) Not affected
National Emissions Standards for Hazardous Air Pollutants (NESHAP Part 61) are listed under 40 CFR 61. (These include asbestos, benzene, beryllium, mercury, and vinyl

chloride).

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63)
National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) standards are listed under 40 CFR 63.

Not affected

Prevention of Significant Deterioration (PSD)
These rules are found under WAQSR Chapter 6, Section 4.

Not Affected

Non-Attainment New Source Review
These rules are found under WAQSR Chapter 6, Section 13.

Not Affected

- **Emission Unit Attachments**

| Required Attachment | Public Document Id | Attachment Type | Description |
|---------------------|--------------------|-----------------|-------------|
|---------------------|--------------------|-----------------|-------------|

Section II - Specific Air Contaminant Source Information

AQD EU ID: TNK001

AQD EU description:

Company EU ID: Condo

Company EU Description: Three condensate storage tanks - 400 bbl each

- **Source Installation or Modification Schedule** – Select reason(s) for this emissions unit being included in this application (must be completed regardless of date of installation or modification):

Construction(greenfield/new facility)

Date production began:

04/26/2015

- **Emission Unit Type Specific Information**

Emission Unit Type : Storage Tank/Silo

Maximum Hourly Throughput 2049.0000

Units : barrels/hr

Is Tank Heated : No

Operating Pressure (psig) : 16.00

Vapor Pressure of Material 9.32
Stored (psig) :

- **Potential Operating Schedule** – Provide the operating schedule for this emissions unit

Hours/day : 24

Hours/year : 8760

- **Emissions Information** "Potential to emit" means the maximum capacity of a source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation is enforceable by the EPA and the Division. This term does not alter or affect the use of this term for any other purposes under the Act, or the term "capacity factor" as used in Title IV of the Act or the regulations promulgated thereunder.

Basis for Determination Options:

- *Manufacturer Data*
- *Test results for this source*
- *Similar source test results*
- *GRICalc*
- *Tanks Program*
- *AP-42*
- *Other. If this is selected, attach a document with a description of the method used.*

Criteria Pollutants :

| Pollutant | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|---|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | Potential to Emit (PTE)* | Units* | | | |
| Particulate emissions (PE/PM) (formerly particulate matter, PM) | 0 | 0 | | 0 | 0 | |
| PM # 10 microns in diameter (PE/PM10) | 0 | 0 | | 0 | 0 | |

| | | | | | | |
|---|----------|---|--|---|--------|---------------|
| PM # 2.5 microns in diameter (PE/PM2.5) | 0 | 0 | | 0 | 0 | |
| Sulfur dioxide (SO2) | 0 | 0 | | 0 | 0.0027 | Tanks Program |
| Nitrogen oxides (NOx) | 0 | 0 | | 0 | 1.1779 | Tanks Program |
| Carbon monoxide (CO) | 0 | 0 | | 0 | 0.2945 | Tanks Program |
| Volatile organic compounds (VOC) | 167.1481 | 0 | | 0 | 3.3518 | Tanks Program |
| Lead (Pb) | 0 | 0 | | 0 | 0 | |
| Total Hazardous Air Pollutants (HAPs) | 9.0849 | 0 | | 0 | 0.1817 | Tanks Program |
| Fluoride (F) | 0 | 0 | | 0 | 0 | |
| Hydrogen Sulfide (H2S) | 0 | 0 | | 0 | 0 | |
| Mercury (Hg) | 0 | 0 | | 0 | 0 | |
| Total Reduced Sulfur (TRS) | 0 | 0 | | 0 | 0 | |
| Sulfuric Acid Mist (SAM) | 0 | 0 | | 0 | 0 | |

Hazardous Air Pollutants (HAPs) and Toxic Air Contaminants:

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |

Greenhouse Gases (GHGs):

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |

* Provide your calculations as an attachment and explain how all process variables and emissions factors were selected. Note the emission factor(s) employed and document origin. Example: AP-42, Table 4.4-3 (8/97); stack test, Method 5, 4/96; mass balance based on MSDS; etc.

** AQD Calculated - See 'Help' for more information.

- Best Available Control Technology (BACT)

Was a BACT Analysis completed for this unit? No

- Lowest Achievable Emission Rate (LAER)

Was a LAER Analysis completed for this unit? No

- Federal and State Rule Applicability

New Source Performance Standards (NSPS) Not affected
New Source Performance Standards are listed under 40 CFR 60 - Standards of Performance for New Stationary Sources.

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 61) Not affected
National Emissions Standards for Hazardous Air Pollutants (NESHAP Part 61) are listed under 40 CFR 61. (These

include asbestos, benzene, beryllium, mercury, and vinyl chloride).

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63)
National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) standards are listed under 40 CFR 63.

Not affected

Prevention of Significant Deterioration (PSD)
These rules are found under WAQSR Chapter 6, Section 4.

Not Affected

Non-Attainment New Source Review
These rules are found under WAQSR Chapter 6, Section 13.

Not Affected

- **Emission Unit Attachments**

| Required Attachment | Public Document Id | Attachment Type | Description |
|---------------------|--------------------|-----------------|-------------|
|---------------------|--------------------|-----------------|-------------|

Section II - Specific Air Contaminant Source Information

AQD EU ID: TNK002

AQD EU description:

Company EU ID: PW Tank

Company EU Description: Three Produced water tanks - 400 bbl each

- **Source Installation or Modification Schedule** – Select reason(s) for this emissions unit being included in this application (must be completed regardless of date of installation or modification):

Construction(greenfield/new facility)

Date production began:

04/26/2015

- **Emission Unit Type Specific Information**

Emission Unit Type : Storage Tank/Silo

Maximum Hourly Throughput :

Units :

Is Tank Heated : No

Operating Pressure (psig) : 16.00

Vapor Pressure of Material 0.01
Stored (psig) :

- **Potential Operating Schedule** – Provide the operating schedule for this emissions unit

Hours/day : 24

Hours/year : 8760

- **Emissions Information** "Potential to emit" means the maximum capacity of a source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation is enforceable by the EPA and the Division. This term does not alter or affect the use of this term for any other purposes under the Act, or the term "capacity factor" as used in Title IV of the Act or the regulations promulgated thereunder.

Basis for Determination Options:

- *Manufacturer Data*
- *Test results for this source*
- *Similar source test results*
- *GRICalc*
- *Tanks Program*
- *AP-42*
- *Other. If this is selected, attach a document with a description of the method used.*

Criteria Pollutants :

| Pollutant | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|---|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | Potential to Emit (PTE)* | Units* | | | |
| Particulate emissions (PE/PM) (formerly particulate matter, PM) | 0 | 0 | | 0 | 0 | |
| PM # 10 microns in diameter (PE/PM10) | 0 | 0 | | 0 | 0 | |

| | | | | | | |
|---|---|---|--|---|---|--|
| PM # 2.5 microns in diameter (PE/PM2.5) | 0 | 0 | | 0 | 0 | |
| Sulfur dioxide (SO2) | 0 | 0 | | 0 | 0 | |
| Nitrogen oxides (NOx) | 0 | 0 | | 0 | 0 | |
| Carbon monoxide (CO) | 0 | 0 | | 0 | 0 | |
| Volatile organic compounds (VOC) | 0 | 0 | | 0 | 0 | |
| Lead (Pb) | 0 | 0 | | 0 | 0 | |
| Total Hazardous Air Pollutants (HAPs) | 0 | 0 | | 0 | 0 | |
| Fluoride (F) | 0 | 0 | | 0 | 0 | |
| Hydrogen Sulfide (H2S) | 0 | 0 | | 0 | 0 | |
| Mercury (Hg) | 0 | 0 | | 0 | 0 | |
| Total Reduced Sulfur (TRS) | 0 | 0 | | 0 | 0 | |
| Sulfuric Acid Mist (SAM) | 0 | 0 | | 0 | 0 | |

Hazardous Air Pollutants (HAPs) and Toxic Air Contaminants:

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |

Greenhouse Gases (GHGs):

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |

* Provide your calculations as an attachment and explain how all process variables and emissions factors were selected. Note the emission factor(s) employed and document origin. Example: AP-42, Table 4.4-3 (8/97); stack test, Method 5, 4/96; mass balance based on MSDS; etc.

** AQD Calculated - See 'Help' for more information.

- Best Available Control Technology (BACT)

Was a BACT Analysis completed for this unit? No

- Lowest Achievable Emission Rate (LAER)

Was a LAER Analysis completed for this unit? No

- Federal and State Rule Applicability

New Source Performance Standards (NSPS) Not affected
New Source Performance Standards are listed under 40 CFR 60 - Standards of Performance for New Stationary Sources.

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 61) Not affected
National Emissions Standards for Hazardous Air Pollutants (NESHAP Part 61) are listed under 40 CFR 61. (These include asbestos, benzene, beryllium, mercury, and vinyl chloride).

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63)
National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) standards are listed under 40 CFR 63.

Not affected

Prevention of Significant Deterioration (PSD)
These rules are found under WAQSR Chapter 6, Section 4.

Not Affected

Non-Attainment New Source Review
These rules are found under WAQSR Chapter 6, Section 13.

Not Affected

- **Emission Unit Attachments**

| Required Attachment | Public Document Id | Attachment Type | Description |
|---------------------|--------------------|-----------------|-------------|
|---------------------|--------------------|-----------------|-------------|

Section II - Specific Air Contaminant Source Information

AQD EU ID: TNK003

AQD EU description:

Company EU ID: Blowdown TK

Company EU Description: 1-400 bbl blowdown tank for liquids unloading

- **Source Installation or Modification Schedule** – Select reason(s) for this emissions unit being included in this application (must be completed regardless of date of installation or modification):

Construction(greenfield/new facility)

Date production began:

04/26/2015

- **Emission Unit Type Specific Information**

Emission Unit Type : Storage Tank/Silo

Maximum Hourly Throughput :

Units :

Is Tank Heated : No

Operating Pressure (psig) : 16.00

Vapor Pressure of Material 0.01
Stored (psig) :

- **Potential Operating Schedule** – Provide the operating schedule for this emissions unit

Hours/day : 24

Hours/year : 8760

- **Emissions Information** "Potential to emit" means the maximum capacity of a source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation is enforceable by the EPA and the Division. This term does not alter or affect the use of this term for any other purposes under the Act, or the term "capacity factor" as used in Title IV of the Act or the regulations promulgated thereunder.

Basis for Determination Options:

- *Manufacturer Data*
- *Test results for this source*
- *Similar source test results*
- *GRICalc*
- *Tanks Program*
- *AP-42*
- *Other. If this is selected, attach a document with a description of the method used.*

Criteria Pollutants :

| Pollutant | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|---|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | Potential to Emit (PTE)* | Units* | | | |
| Particulate emissions (PE/PM) (formerly particulate matter, PM) | 0 | 0 | | 0 | 0 | |
| PM # 10 microns in diameter (PE/PM10) | 0 | 0 | | 0 | 0 | |

| | | | | | | |
|---|---|---|--|---|---|--|
| PM # 2.5 microns in diameter (PE/PM2.5) | 0 | 0 | | 0 | 0 | |
| Sulfur dioxide (SO2) | 0 | 0 | | 0 | 0 | |
| Nitrogen oxides (NOx) | 0 | 0 | | 0 | 0 | |
| Carbon monoxide (CO) | 0 | 0 | | 0 | 0 | |
| Volatile organic compounds (VOC) | 0 | 0 | | 0 | 0 | |
| Lead (Pb) | 0 | 0 | | 0 | 0 | |
| Total Hazardous Air Pollutants (HAPs) | 0 | 0 | | 0 | 0 | |
| Fluoride (F) | 0 | 0 | | 0 | 0 | |
| Hydrogen Sulfide (H2S) | 0 | 0 | | 0 | 0 | |
| Mercury (Hg) | 0 | 0 | | 0 | 0 | |
| Total Reduced Sulfur (TRS) | 0 | 0 | | 0 | 0 | |
| Sulfuric Acid Mist (SAM) | 0 | 0 | | 0 | 0 | |

Hazardous Air Pollutants (HAPs) and Toxic Air Contaminants:

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |

Greenhouse Gases (GHGs):

| Pollutant | Pollutant Category | Pre-Controlled Potential Emissions (tons/yr) | Efficiency Standards | | Potential to Emit (PTE) (lbs/hr)* | Potential to Emit (PTE) (tons/yr)* | Basis for Determination* |
|-----------|--------------------|--|--------------------------|--------|-----------------------------------|------------------------------------|--------------------------|
| | | | Potential to Emit (PTE)* | Units* | | | |

* Provide your calculations as an attachment and explain how all process variables and emissions factors were selected. Note the emission factor(s) employed and document origin. Example: AP-42, Table 4.4-3 (8/97); stack test, Method 5, 4/96; mass balance based on MSDS; etc.

** AQD Calculated - See 'Help' for more information.

- Best Available Control Technology (BACT)

Was a BACT Analysis completed for this unit? No

- Lowest Achievable Emission Rate (LAER)

Was a LAER Analysis completed for this unit? No

- Federal and State Rule Applicability

New Source Performance Standards (NSPS) Not affected
New Source Performance Standards are listed under 40 CFR 60 - Standards of Performance for New Stationary Sources.

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 61) Not affected
National Emissions Standards for Hazardous Air Pollutants (NESHAP Part 61) are listed under 40 CFR 61. (These include asbestos, benzene, beryllium, mercury, and vinyl chloride).

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) Not affected
National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) standards are listed under 40 CFR 63.

Prevention of Significant Deterioration (PSD) Not Affected
These rules are found under WAQSR Chapter 6, Section 4.

Non-Attainment New Source Review Not Affected
These rules are found under WAQSR Chapter 6, Section 13.

- **Emission Unit Attachments**

| Required Attachment | Public Document Id | Attachment Type | Description |
|---------------------|--------------------|-----------------|-------------|
|---------------------|--------------------|-----------------|-------------|

Facility Detail Report
Facility Name: Tierney II Unit 24-70D Pad
ID: F026713

| Item | Quantity | Unit | Description |
|------|----------|------|-------------|
| ... | ... | ... | ... |

| Item | Quantity | Unit | Description |
|------|----------|------|-------------|
| ... | ... | ... | ... |

Facility : F026713

Sep 23 2015, 08:08:43

- Facility Information

Facility ID: F026713
 FacilityName: Tierney II Unit 24-70D Pad
 Facility Description:
 Company Name: BP America Production Company
 Operating Status: Operating
 Facility Class: Minor
 CERR Class: NON
 AFS:
 Facility Type: Production Site

- Location

| Physical Address | City | County | Lat/Long | PLSS | Effective Date |
|----------------------|-------------------|------------|---------------------|---------------|----------------|
| Section 24, 19N, 94W | Sweetwater County | Sweetwater | 41.61068/-107.94280 | S24-T19N-R94W | 02/25/2015 |

Location Detail For : Section 24, 19N, 94W

Latitude: 41.61068 Longitude: -107.94280
 Quarter Quarter: Quarter:
 Section: 24
 Township: 19N Range: 94W
 County: Sweetwater State: Wyoming
 Distict: District 5
 Physical Address 1: Section 24, 19N, 94W Physical Address 2:
 City: Sweetwater County Zip: 82935
 Effective Date: 02/25/2015

- API

| API |
|---------|
| 3729297 |
| 3729298 |
| 3729299 |
| 3729300 |
| 3729301 |
| 3729302 |
| 3729303 |

- Notes

| User Name | Date | Note |
|-----------|------|------|
|-----------|------|------|

- NAICS Codes

21111 Oil and Gas Extraction

- Contacts

| Contact Type | Contact Person | Phone Number | Email | Start Date | End Date |
|-----------------------|------------------|----------------|------------------------|------------|----------|
| Environmental contact | Caldwell, Shanda | (307) 328-3779 | shanda.caldwell@bp.com | 04/14/2015 | |

Contact Detail For : Caldwell, Shanda

Prefix: Middle Name: Suffix: Company Title: Address 1: P.O. Box 157 Address 2: City: Wamsutter State: Wyoming Work Phone No: (307) 328-3779 Address 2: Mobile Phone No.: Fax No: (307) 328-3779 Email: shanda.caldwell@bp.com Email Pager Address:

First Name: Shanda Last Name: Caldwell Contact's Company Name: BP America Production Company Zip Code: 82336 Secondary Phone No.: Secondary Ext. No.: Pager No.: Pager PIN No.:

- Rules & Regs

Subject to Part 60 NSPS: X Subject to 112(r) Accidental Release Prevention: Subject to Part 61 NESHAP: Subject to non-attainment NSR: Subject Part 63 NESHAP: X Subject to PSD: Subject to Title IV Acid Rain:

Part 60 NSPS Subparts

JJJJ - Stationary Spark Ignition Internal Combustion Engine

Part 63 NESHAP Subparts

ZZZZ - Reciprocating Internal Combustion Engines

- Attachments

| Description | Type | Modified By | Modified Date |
|-------------|------|-------------|---------------|
|-------------|------|-------------|---------------|

- Version

| Version ID | Version Start Date | Version End Date | Preserved |
|------------|--------------------|------------------|-----------|
| CURRENT | 07/17/2015 | | X |
| 30413 | 05/19/2015 | 07/17/2015 | X |
| 30002 | 04/16/2015 | 05/19/2015 | X |
| 29266 | 02/25/2015 | 04/16/2015 | X |

Emission Unit : ENG001

Sep 23 2015, 08:08:43

- Emission Unit Information

AQD Emissions Unit ID: ENG001
 Emission Unit Type: Engine
 Name Plate Rating: 92.00 Units: hp
 Site Rating: 88.00 Units: hp
 Primary Fuel Type: Field Gas Secondary Fuel Type: Pipeline Grade Natural Gas
 Model Name and Number: 92 HP Powertrain Vortec Engine Engine: 4 Stroke Rich Burn
 AQD Description: 92-hp GM Vortec 5.7L natural gas engine
 Company Equipment ID: VRU engine
 Company Equipment Description: engine on the VRU is a 92-hp GM Vortec 5.7L natural gas engine
 Operating Status: Not Yet Installed

Initial Construction Commencement Date:
 Initial Operation Commencement Date:
 Most Recent Construction/Modification Commencement Date:
 Most Recent Operation Commencement Date:

- Serial Number Tracking

| Serial Number | Manufacturer Name | Construction/Installation Commencement Date | Operation Commencement/Start-up Date | Order Date | Manufacture Date | Shutdown Date | Removal Date |
|---------------|-------------------|---|--------------------------------------|------------|------------------|---------------|--------------|
| TBD | General Motors | | | | | | |

- Permitted Emissions

| Pollutant | Potential Emissions (Lbs/hour) | Potential Emissions (Tons/Year) | Allowable Emissions (Lbs/Hour) | Allowable Emissions (Tons/Year) | Comments |
|-----------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|
| CO - Carbon Monoxide | | | 0.400000 | 1.800000 | |
| NOx - Nitrogen Oxides | | | 0.200000 | 0.900000 | |

- Processes

- Emission Process Information

Process ID: PRC001
 Process Name:
 Company Process Description: NG Compressor with VRU
 Source Classification Code (SCC): 3-10-002-03

Control equipment(s) directly associated with this process

Facility Detail Report

Report Date: 10/10/2017

Report Time: 10:00 AM

Report User: J. Smith

Report Type: Standard

Report Period: 10/10/2017

Report Interval: 15 Minutes

Report Status: Complete

Report Location: Tierney II Unit 24-70D Pad

Report Description: Facility Detail Report

Report Summary: This report provides a detailed overview of the facility's performance over the specified period.

Report Details: The report includes data on various facility components and their operational status.

Report Notes: No significant issues were identified during the report period.

Report Footer: This report is generated automatically by the facility management system.

Report Generated: 10/10/2017 10:00 AM

Report Data: The following table provides a summary of the facility's performance metrics.

Report Metrics: The metrics include energy consumption, equipment status, and environmental conditions.

Report Analysis: The data indicates that the facility is operating within normal parameters.

Report Recommendations: No specific recommendations are provided for this report.

Report Contact: For more information, please contact the facility manager.

Report Version: 1.0

Report Copyright: © 2017 Facility Management System

Report License: This report is for internal use only.

Report Disclaimer: The information provided is for informational purposes only.

Emission Unit : FUG001

Sep 23 2015, 08:08:44

- Emission Unit Information

AQD Emissions Unit ID: FUG001

Emission Unit Type: Fugitive

AQD Description:

Company Equipment ID: Fugitives

Company Equipment Description: Fugitive Leaks at O&G facility

Operating Status: Operating

Initial Construction Commencement Date: 01/26/2015

Initial Operation Commencement Date: 01/26/2015

Most Recent Construction/Modification Commencement Date:

Most Recent Operation Commencement Date:

- Permitted Emissions

| Pollutant | Potential Emissions (Lbs/hour) | Potential Emissions (Tons/Year) | Allowable Emissions (Lbs/Hour) | Allowable Emissions (Tons/Year) | Comments |
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|

- Processes

- Emission Process Information

Process ID: PRC002

Process Name:

Company Process Description: Fugitive

Source Classification Code (SCC): 3-10-002-20

Emission Unit : HET001

Sep 23 2015, 08:08:44

- Emission Unit Information

AQD Emissions Unit ID: HET001

Emission Unit Type: Heater/Chiller

Firing Type: Indirect

Heat Input Rating: 1.0 Units: MMBtu/hr

Primary Fuel Type: Field Gas Secondary Fuel Type: Pipeline Grade Natural Gas

Heat Content of Fuel (BTU/scf): 1143

AQD Description:

Company Equipment ID: Htr 24-70D

Company Equipment Description: Burner associated with the separator on t-pak

Operating Status: Operating

Initial Construction Commencement Date: 01/01/2015

Initial Operation Commencement Date: 01/26/2015

Most Recent Construction/Modification Commencement Date:

Most Recent Operation Commencement Date:

- Permitted Emissions

| Pollutant | Potential Emissions (Lbs/hour) | Potential Emissions (Tons/Year) | Allowable Emissions (Lbs/Hour) | Allowable Emissions (Tons/Year) | Comments |
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|
| | | | | | |

- Processes

- Emission Process Information

Process ID: PRC003

Process Name:

Company Process Description: Heater on T-pak

Source Classification Code (SCC): 3-10-004-04

Release points(s) directly associated with this process

VER006

Emission Unit : HET002

Sep 23 2015, 08:08:44

- Emission Unit Information

AQD Emissions Unit ID: HET002

Emission Unit Type: Heater/Chiller

Firing Type: Indirect

Heat Input Rating: 1.0

Units: MMBtu/hr

Primary Fuel Type: Field Gas

Secondary Fuel Type: Pipeline Grade Natural Gas

Heat Content of Fuel (BTU/scf): 1143

AQD Description:

Company Equipment ID: Htr 24-120D

Company Equipment Description: Burner associated with the separator on t-pak

Operating Status: Operating

Initial Construction Commencement Date: 01/01/2015

Initial Operation Commencement Date: 01/26/2015

Most Recent Construction/Modification Commencement Date:

Most Recent Operation Commencement Date:

- Permitted Emissions

| Pollutant | Potential Emissions (Lbs/hour) | Potential Emissions (Tons/Year) | Allowable Emissions (Lbs/Hour) | Allowable Emissions (Tons/Year) | Comments |
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|
| | | | | | |

- Processes

- Emission Process Information

Process ID: PRC004

Process Name:

Company Process Description: Heater on T-pak

Source Classification Code (SCC): 3-10-004-04

Release points(s) directly associated with this process

VER004

Emission Unit : HET003

Sep 23 2015, 08:08:44

- Emission Unit Information

AQD Emissions Unit ID: HET003

Emission Unit Type: Heater/Chiller

Firing Type: Indirect

Heat Input Rating: 1.0

Units: MMBtu/hr

Primary Fuel Type: Field Gas

Secondary Fuel Type: Pipeline Grade Natural Gas

Heat Content of Fuel (BTU/scf): 1143

AQD Description:

Company Equipment ID: Htr 24-100D

Company Equipment Description: Burner associated with the separator on t-pak

Operating Status: Operating

Initial Construction Commencement Date: 01/01/2015

Initial Operation Commencement Date: 01/26/2015

Most Recent Construction/Modification Commencement Date:

Most Recent Operation Commencement Date:

- Permitted Emissions

| Pollutant | Potential Emissions (Lbs/hour) | Potential Emissions (Tons/Year) | Allowable Emissions (Lbs/Hour) | Allowable Emissions (Tons/Year) | Comments |
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|

- Processes

- Emission Process Information

Process ID: PRC005

Process Name:

Company Process Description: Heater on T-pak

Source Classification Code (SCC): 3-10-004-04

Release points(s) directly associated with this process

VER002

Emission Unit : HET004

Sep 23 2015, 08:08:44

- Emission Unit Information

AQD Emissions Unit ID: HET004

Emission Unit Type: Heater/Chiller

Firing Type: Indirect

Heat Input Rating: 1.0

Units: MMBtu/hr

Primary Fuel Type: Field Gas

Secondary Fuel Type: Pipeline Grade Natural Gas

Heat Content of Fuel (BTU/scf): 1143

AQD Description:

Company Equipment ID: Htr 24-130D

Company Equipment Description: Burner associated with the separator on t-pak

Operating Status: Operating

Initial Construction Commencement Date: 01/01/2015

Initial Operation Commencement Date: 01/26/2015

Most Recent Construction/Modification Commencement Date:

Most Recent Operation Commencement Date:

- Permitted Emissions

| Pollutant | Potential Emissions (Lbs/hour) | Potential Emissions (Tons/Year) | Allowable Emissions (Lbs/Hour) | Allowable Emissions (Tons/Year) | Comments |
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|
| | | | | | |

- Processes

- Emission Process Information

Process ID: PRC006

Process Name:

Company Process Description: Heater on T-pak

Source Classification Code (SCC): 3-10-004-04

Release points(s) directly associated with this process

VER003

Emission Unit : HET005

Sep 23 2015, 08:08:44

- Emission Unit Information

AQD Emissions Unit ID: HET005
 Emission Unit Type: Heater/Chiller
 Firing Type: Indirect
 Heat Input Rating: 1.0 Units: MMBtu/hr
 Primary Fuel Type: Field Gas Secondary Fuel Type: Pipeline Grade Natural Gas
 Heat Content of Fuel (BTU/scf): 1143
 AQD Description:
 Company Equipment ID: Htr 24-150D
 Company Equipment Description: Burner associated with the separator on t-pak
 Operating Status: Operating

Initial Construction Commencement Date: 01/01/2015
 Initial Operation Commencement Date: 01/26/2015

Most Recent Construction/Modification Commencement Date:
 Most Recent Operation Commencement Date:

- Permitted Emissions

| Pollutant | Potential Emissions (Lbs/hour) | Potential Emissions (Tons/Year) | Allowable Emissions (Lbs/Hour) | Allowable Emissions (Tons/Year) | Comments |
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|
| | | | | | |

- Processes

- Emission Process Information

Process ID: PRC007
 Process Name:
 Company Process Description: Heater on T-pak
 Source Classification Code (SCC): 3-10-004-04

Release points(s) directly associated with this process

VER005

Emission Unit : HET006

Sep 23 2015, 08:08:44

- Emission Unit Information

AQD Emissions Unit ID: HET006

Emission Unit Type: Heater/Chiller

Firing Type: Indirect

Heat Input Rating: 0.5

Units: MMBtu/hr

Primary Fuel Type: Field Gas

Secondary Fuel Type: Pipeline Grade Natural Gas

Heat Content of Fuel (BTU/scf): 1143

AQD Description:

Company Equipment ID: Line Htr 1

Company Equipment Description: Burner associated with the line heater

Operating Status: Operating

Initial Construction Commencement Date: 01/26/2015

Initial Operation Commencement Date: 01/26/2015

Most Recent Construction/Modification Commencement Date:

Most Recent Operation Commencement Date:

- Permitted Emissions

| Pollutant | Potential Emissions (Lbs/hour) | Potential Emissions (Tons/Year) | Allowable Emissions (Lbs/Hour) | Allowable Emissions (Tons/Year) | Comments |
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|

- Processes

- Emission Process Information

Process ID: PRC008

Process Name:

Company Process Description: Line Heater

Source Classification Code (SCC): 3-10-004-04

Release points(s) directly associated with this process

VER007

Emission Unit : HET007

Sep 23 2015, 08:08:44

- Emission Unit Information

AQD Emissions Unit ID: HET007
Emission Unit Type: Heater/Chiller
Firing Type: Indirect
Heat Input Rating: 0.5
Primary Fuel Type: Field Gas
Heat Content of Fuel (BTU/scf): 1143
AQD Description:
Company Equipment ID: Line Htr 2
Company Equipment Description: Burner associated with the line heater
Operating Status: Operating
Units: MMBtu/hr
Secondary Fuel Type: Pipeline Grade Natural Gas
Initial Construction Commencement Date: 01/26/2015
Initial Operation Commencement Date: 01/26/2015
Most Recent Construction/Modification Commencement Date:
Most Recent Operation Commencement Date:

- Permitted Emissions

| Pollutant | Potential Emissions (Lbs/hour) | Potential Emissions (Tons/Year) | Allowable Emissions (Lbs/Hour) | Allowable Emissions (Tons/Year) | Comments |
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|

- Processes

- Emission Process Information

Process ID: PRC009
Process Name:
Company Process Description: Line Heater
Source Classification Code (SCC): 3-10-004-04

Release points(s) directly associated with this process

VER008

Emission Unit : HET008

Sep 23 2015, 08:08:44

- Emission Unit Information

AQD Emissions Unit ID: HET008

Emission Unit Type: Heater/Chiller

Firing Type: Indirect

Heat Input Rating: 1.0

Units: MMBtu/hr

Primary Fuel Type: Field Gas

Secondary Fuel Type: Pipeline Grade Natural Gas

Heat Content of Fuel (BTU/scf): 1143

AQD Description:

Company Equipment ID: Htr 24-110D

Company Equipment Description: Burner associated with the separator on t-pak

Operating Status: Operating

Initial Construction Commencement Date: 01/01/2015

Initial Operation Commencement Date: 01/26/2015

Most Recent Construction/Modification Commencement Date:

Most Recent Operation Commencement Date:

- Permitted Emissions

| Pollutant | Potential Emissions (Lbs/hour) | Potential Emissions (Tons/Year) | Allowable Emissions (Lbs/Hour) | Allowable Emissions (Tons/Year) | Comments |
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|

- Processes

- Emission Process Information

Process ID: PRC018

Process Name:

Company Process Description: Heater on T-pak

Source Classification Code (SCC): 3-10-004-04

Release points(s) directly associated with this process

VER011

Emission Unit : HET009

Sep 23 2015, 08:08:44

- Emission Unit Information

AQD Emissions Unit ID: HET009
 Emission Unit Type: Heater/Chiller
 Firing Type: Indirect
 Heat Input Rating: 1.0 Units: MMBtu/hr
 Primary Fuel Type: Field Gas Secondary Fuel Type: Pipeline Grade Natural Gas
 Heat Content of Fuel (BTU/scf): 1143
 AQD Description:
 Company Equipment ID: Htr 24-140D
 Company Equipment Description: Burner associated with the separator on t-pak
 Operating Status: Operating
 Initial Construction Commencement Date: 01/01/2015
 Initial Operation Commencement Date: 01/26/2015
 Most Recent Construction/Modification Commencement Date:
 Most Recent Operation Commencement Date:

- Permitted Emissions

| Pollutant | Potential Emissions (Lbs/hour) | Potential Emissions (Tons/Year) | Allowable Emissions (Lbs/Hour) | Allowable Emissions (Tons/Year) | Comments |
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|
| | | | | | |

- Processes

- Emission Process Information

Process ID: PRC019
 Process Name:
 Company Process Description: Heater on T-pak
 Source Classification Code (SCC): 3-10-004-04

Release points(s) directly associated with this process

VER012

Emission Unit : LUD001

Sep 23 2015, 08:08:44

- Emission Unit Information

AQD Emissions Unit ID: LUD001

Emission Unit Type: Loading/Unloading/Dump

Type of Material: liquid

Material Description: Condensate production from well location

Maximum Annual Throughput: 49099

Units: barrels/yr

AQD Description:

Company Equipment ID: Truck Load

Company Equipment Description: Loading / Unloading occurs at the onsite storage tanks by a fluid hauling truck.
Emissions from loading are estimated using EPA's AP-42.

Operating Status: Operating

Initial Construction Commencement Date: 01/26/2015

Initial Operation Commencement Date: 01/26/2015

Most Recent
Construction/Modification
Commencement Date:

Most Recent Operation
Commencement Date:

- Permitted Emissions

| Pollutant | Potential Emissions (Lbs/hour) | Potential Emissions (Tons/Year) | Allowable Emissions (Lbs/Hour) | Allowable Emissions (Tons/Year) | Comments |
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|

- Processes

- Emission Process Information

Process ID: PRC010

Process Name:

Company Process Description: Loading / Unloading

Source Classification Code (SCC): 3-10-002-99

Release points(s) directly associated with this process

VER010

Emission Unit : PNE001

Sep 23 2015, 08:08:44

- Emission Unit Information

AQD Emissions Unit ID: PNE001
 Emission Unit Type: Pneumatic Equipment
 Type of Equipment: Pump
 Bleed rate (cu. ft/hr):
 Gas Consumption Rate (cu. ft/hr): 129.0000
 AQD Description:
 Company Equipment ID: Glycol Pump
 Company Equipment Description: 4 Heat Medium Pumps - Sandpiper (1 inch)
 Operating Status: Operating

Initial Construction Commencement 01/01/2015
 Date:
 Initial Operation Commencement 01/26/2015
 Date:
 Most Recent Construction/Modification Commencement Date:
 Most Recent Operation Commencement Date:

- Permitted Emissions

| Pollutant | Potential Emissions (Lbs/hour) | Potential Emissions (Tons/Year) | Allowable Emissions (Lbs/Hour) | Allowable Emissions (Tons/Year) | Comments |
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|
| | | | | | |

- Processes

- Emission Process Information

Process ID: PRC011
 Process Name:
 Company Process Description: Heat Trace
 Source Classification Code (SCC): 3-10-002-99

Control equipment(s) directly associated with this process

FLA001

Emission Unit : PNE002

Sep 23 2015, 08:08:44

- Emission Unit Information

AQD Emissions Unit ID: PNE002

Emission Unit Type: Pneumatic Equipment

Type of Equipment: Pump

Bleed rate (cu. ft/hr):

Gas Consumption Rate (cu. ft/hr): 0.0000

AQD Description:

Company Equipment ID: Chem Pump

Company Equipment Description: 4 Solar TxAm Chemical Pumps

Operating Status: Operating

Initial Construction Commencement Date: 01/01/2015

Initial Operation Commencement Date: 01/26/2015

Most Recent Construction/Modification Commencement Date:

Most Recent Operation Commencement Date:

- Permitted Emissions

| Pollutant | Potential Emissions (Lbs/hour) | Potential Emissions (Tons/Year) | Allowable Emissions (Lbs/Hour) | Allowable Emissions (Tons/Year) | Comments |
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|
| | | | | | |

- Processes

- Emission Process Information

Process ID: PRC012

Process Name:

Company Process Description: Solar Chemical Pumps

Source Classification Code (SCC): 3-10-002-99

Release points(s) directly associated with this process

HOR002

Emission Unit : PNE003

Sep 23 2015, 08:08:44

- Emission Unit Information

AQD Emissions Unit ID: PNE003

Emission Unit Type: Pneumatic Equipment

Type of Equipment: Controller (Intermittent)

Bleed rate (cu. ft/hr): 6.0000

Gas Consumption Rate (cu. ft/hr):

AQD Description:

Company Equipment ID: Controllers

Company Equipment Description: Thirty seven low bleed/ no bleed pneumatic controllers

Operating Status: Operating

Initial Construction Commencement Date: 01/01/2015

Initial Operation Commencement Date: 01/26/2015

Most Recent Construction/Modification Commencement Date:

Most Recent Operation Commencement Date:

- Permitted Emissions

| Pollutant | Potential Emissions (Lbs/hour) | Potential Emissions (Tons/Year) | Allowable Emissions (Lbs/Hour) | Allowable Emissions (Tons/Year) | Comments |
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|
| | | | | | |

- Processes

- Emission Process Information

Process ID: PRC013

Process Name:

Company Process Description: Pneumatic Controllers

Source Classification Code (SCC): 3-10-002-99

Release points(s) directly associated with this process

AVL001

Emission Unit : SEP001

Sep 23 2015, 08:08:44

- Emission Unit Information

AQD Emissions Unit ID: SEP001

Emission Unit Type: Separator/Treater

Type Of Vessel: 3-Phase Separator

is Vessel Heated: Yes

AQD Description:

Company Equipment ID: Separators

Company Equipment Description: Eight (8) separators onsite (heaters are represented separately); there are seven separators in the individual t-paks and one in the line heater

Operating Status: Operating

Initial Construction Commencement Date: 01/01/2015

Initial Operation Commencement Date: 01/26/2015

Most Recent Construction/Modification Commencement Date:

Most Recent Operation Commencement Date:

- Permitted Emissions

| Pollutant | Potential Emissions (Lbs/hour) | Potential Emissions (Tons/Year) | Allowable Emissions (Lbs/Hour) | Allowable Emissions (Tons/Year) | Comments |
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|
| | | | | | |

- Processes

- Emission Process Information

Process ID: PRC014

Process Name:

Company Process Description:

Source Classification Code (SCC): 3-10-002-99

Emission Unit : TNK001

Sep 23 2015, 08:08:44

- Emission Unit Information

AQD Emissions Unit ID: TNK001

Emission Unit Type: Storage Tank/Silo

Material Type: Liquid

Description of Material Stored: Condensate from natural gas well

Capacity: 400

Units: barrels

Maximum Throughput: 134.5200

Units: barrels/day

AQD Description:

Company Equipment ID: Condo

Company Equipment Description: Three condensate storage tanks - 400 bbl each

Operating Status: Operating

Initial Construction Commencement Date: 01/01/2015

Initial Operation Commencement Date: 01/26/2015

Most Recent Construction/Modification Commencement Date:

Most Recent Operation Commencement Date:

- Permitted Emissions

| Pollutant | Potential Emissions (Lbs/hour) | Potential Emissions (Tons/Year) | Allowable Emissions (Lbs/Hour) | Allowable Emissions (Tons/Year) | Comments |
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|

- Processes

- Emission Process Information

Process ID: PRC015

Process Name:

Company Process Description: Storage of Condensate

Source Classification Code (SCC): 4-04-003-11

Control equipment(s) directly associated with this process

FLA001

Emission Unit : TNK002

Sep 23 2015, 08:08:44

- Emission Unit Information

AQD Emissions Unit ID: TNK002
 Emission Unit Type: Storage Tank/Silo
 Material Type: Liquid
 Description of Material Stored: Produced Water from natural gas well
 Capacity: 400 Units: barrels
 Maximum Throughput: 400.0000 Units: barrels/day
 AQD Description:
 Company Equipment ID: PW Tank
 Company Equipment Description: Three Produced water tanks - 400 bbl each
 Operating Status: Operating
 Initial Construction Commencement Date: 01/01/2015
 Initial Operation Commencement Date: 01/26/2015
 Most Recent Construction/Modification Commencement Date:
 Most Recent Operation Commencement Date:

- Permitted Emissions

| Pollutant | Potential Emissions (Lbs/hour) | Potential Emissions (Tons/Year) | Allowable Emissions (Lbs/Hour) | Allowable Emissions (Tons/Year) | Comments |
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|
| | | | | | |

- Processes

- Emission Process Information

Process ID: PRC016
 Process Name:
 Company Process Description: Storage of Produced Water
 Source Classification Code (SCC): 4-04-003-15

Control equipment(s) directly associated with this process

FLA001

Emission Unit : TNK003

Sep 23 2015, 08:08:44

- Emission Unit Information

AQD Emissions Unit ID: TNK003

Emission Unit Type: Storage Tank/Silo

Material Type: Liquid

Description of Material Stored: Produced water from natural gas well

Capacity: 400

Units: barrels

Maximum Throughput: 400.0000

Units: barrels/day

AQD Description:

Company Equipment ID: Blowdown TK

Company Equipment Description: 1-400 bbl blowdown tank for liquids unloading

Operating Status: Operating

Initial Construction Commencement Date: 01/01/2015

Initial Operation Commencement Date: 01/26/2015

Most Recent Construction/Modification Commencement Date:

Most Recent Operation Commencement Date:

- Permitted Emissions

| Pollutant | Potential Emissions (Lbs/hour) | Potential Emissions (Tons/Year) | Allowable Emissions (Lbs/Hour) | Allowable Emissions (Tons/Year) | Comments |
|-----------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|----------|
| | | | | | |

- Processes

- Emission Process Information

Process ID: PRC017

Process Name:

Company Process Description: Blowdown Tank

Source Classification Code (SCC): 4-04-003-15

Release points(s) directly associated with this process

VER013

Control Equipment : FLA001

Sep 23 2015, 08:08:44

- Control Equipment Information

Equipment Type: Flare
Control Equipment ID: FLA001
AQD Description:
Company Control Equipment ID: SCC
Company Control Equipment Description: There are Four (4) Smokeless Combustion Chambers
Operating Status: Operating
Manufacturer: Natco
Initial Installation Date: 01/26/2015
Model:

- Specific Equipment Type information

Flare Type: Enclosed
Elevated Flare Type: Non-Assisted
Ignition Device: Yes
Flame Presence Sensor: Yes
Inlet Gas Temp:
Flame Presence Type: Thermocouple
Gas Flow Rate:
Sec. Outlet Gas Temp:

- Pollutants Controlled

| Pollutant | Design Control Efficiency(%) | Operating Control Efficiency(%) | Capture Efficiency(%) | Total Capture Control(%) |
|-----------------------|------------------------------|---------------------------------|-----------------------|--------------------------|
| NOx - Nitrogen Oxides | 98 | 98 | 100 | 98 |

- Associated Control Equipments And Release Points

Release points(s) directly associated with this control equipment

VER009

Control Equipment : OTH001

Sep 23 2015, 08:08:44

- Control Equipment Information

Equipment Type: Other
Control Equipment ID: OTH001
AQD Description:
Company Control Equipment ID: NSCR
Company Control Equipment Description: Three-way NSCR catalyst with air/fuel ration controller
Operating Status: Not Operating
Manufacturer: Miratech
Initial Installation Date:
Model: Element # VX-RE-05XC

- Specific Equipment Type information

- Pollutants Controlled

| Pollutant | Design Control Efficiency(%) | Operating Control Efficiency(%) | Capture Efficiency(%) | Total Capture Control(%) |
|-----------------------|------------------------------|---------------------------------|-----------------------|--------------------------|
| CO - Carbon Monoxide | 82 | 82 | 100 | 82 |
| NOx - Nitrogen Oxides | 93 | 93 | 100 | 93 |

- Associated Control Equipments And Release Points

Release points(s) directly associated with this control equipment

VER001

Release Point : VER011

Sep 23 2015, 08:08:44

- Release Point Information

Release Point ID: VER011

Release Type: Vertical

AQD Description:

Company Release Point ID: 24-110D

Company Release Point Description: exhaust from separator for the 24-110D

Operating Status: Operating

Base Elevation (ft): 6772.0

- Stack Details

Stack Height (ft): 20.0

Stack Diameter (ft): 0.5

Exit Gas Velocity (ft/s): 0.99

Exit Gas Flow Rate (acfm): 0.99

Exit Gas Temp (F): 0.99

- Release Latitude and Longitude

Latitude: 41.61068

Longitude: -107.9428

- CEM Data

| Description | H2S | SO2 | NOX | CO | THC | HCL | HFL | O | TRS | CO2 | FLOW | OPACITY | PM |
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|

Release Point : VER012

Sep 23 2015, 08:08:44

- Release Point Information

Release Point ID: VER012

Release Type: Vertical

AQD Description:

Company Release Point ID: 24-140D

Company Release Point Description: exhaust from tpak associated with 24-140D

Operating Status: Operating

Base Elevation (ft): 6772.0

- Stack Details

Stack Height (ft): 20.0

Stack Diameter (ft): 0.5

Exit Gas Velocity (ft/s): 0.99

Exit Gas Flow Rate (acfm): 0.99

Exit Gas Temp (F): 0.99

- Release Latitude and Longitude

Latitude: 41.61068

Longitude: -107.9428

- CEM Data

| Description | H2S | SO2 | NOX | CO | THC | HCL | HFL | O | TRS | CO2 | FLOW | OPACITY | PM |
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|

Release Point : VER013

Sep 23 2015, 08:08:44

- Release Point Information

Release Point ID: VER013

Release Type: Vertical

AQD Description: null [RP ID Changed Log] 07/16/2015 14:43:51, HOR001 >> VER013.

Company Release Point ID: Blowdown Tk

Company Release Point Description: Top of the blowdown tank

Operating Status: Operating

Base Elevation (ft): 6772.0

- Stack Details

Stack Height (ft): 20.0

Stack Diameter (ft): 0.83

Exit Gas Velocity (ft/s): 0.99

Exit Gas Flow Rate (acfm): 0.99

Exit Gas Temp (F): 0.99

- Release Latitude and Longitude

Latitude: 41.61068

Longitude: -107.9428

- CEM Data

| Description | H2S | SO2 | NOX | CO | THC | HCL | HFL | O | TRS | CO2 | FLOW | OPACITY | PM |
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|

Release Point : HOR002

Sep 23 2015, 08:08:44

- Release Point Information

Release Point ID: HOR002
Release Type: Horizontal
AQD Description:
Company Release Point ID: Chem Pump
Company Release Point Description: Solar TxAm chemical pump
Operating Status: Operating
Base Elevation (ft): 6772.0

- Stack Details

Stack Height (ft): 5.0
Stack Diameter (ft): 0.83
Exit Gas Velocity (ft/s): 0.99
Exit Gas Flow Rate (acfm): 0.99
Exit Gas Temp (F): 0.99

- Release Latitude and Longitude

Latitude: 41.61068

Longitude: -107.9428

- CEM Data

| Description | H2S | SO2 | NOX | CO | THC | HCL | HFL | O | TRS | CO2 | FLOW | OPACITY | PM |
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|

Release Point : AVL001

Sep 23 2015, 08:08:44

- Release Point Information

Release Point ID: AVL001

Release Type: Fugitive (Area, Volume, Line)

AQD Description:

Company Release Point ID: Controllers

Company Release Point Description: There are 25 low bleed / no bleed controllers on location

Operating Status: Operating

Release Height (ft): 5.0

- Release Latitude and Longitude

Latitude: 41.61068

Longitude: -107.9428

- CEM Data

| Description | H2S | SO2 | NOX | CO | THC | HCL | HFL | O | TRS | CO2 | FLOW | OPACITY | PM |
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|

Release Point : VER002

Sep 23 2015, 08:08:44

- Release Point Information

Release Point ID: VER002
Release Type: Vertical
AQD Description:
Company Release Point ID: Htr 15-130D
Company Release Point Description: Exhaust from heater 15-130D
Operating Status: Operating
Base Elevation (ft): 6772.0

- Stack Details

Stack Height (ft): 20.0
Exit Gas Velocity (ft/s): 0.99
Exit Gas Temp (F): 0.99
Stack Diameter (ft): 0.5
Exit Gas Flow Rate (acfm): 0.99

- Release Latitude and Longitude

Latitude: 41.61068
Longitude: -107.9428

- CEM Data

| Description | H2S | SO2 | NOX | CO | THC | HCL | HFL | O | TRS | CO2 | FLOW | OPACITY | PM |
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|

Release Point : VER003

Sep 23 2015, 08:08:44

- Release Point Information

Release Point ID: VER003

Release Type: Vertical

AQD Description:

Company Release Point ID: Htr 15-20D

Company Release Point Description: Exhaust for heater 15-20D

Operating Status: Operating

Base Elevation (ft): 6772.0

- Stack Details

Stack Height (ft): 20.0

Stack Diameter (ft): 0.5

Exit Gas Velocity (ft/s): 0.99

Exit Gas Flow Rate (acfm): 0.99

Exit Gas Temp (F): 0.99

- Release Latitude and Longitude

Latitude: 41.61068

Longitude: -107.9428

- CEM Data

| Description | H2S | SO2 | NOX | CO | THC | HCL | HFL | O | TRS | CO2 | FLOW | OPACITY | PM |
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|

Release Point : VER004

Sep 23 2015, 08:08:44

- Release Point Information

Release Point ID: VER004

Release Type: Vertical

AQD Description:

Company Release Point ID: Htr 15-70D

Company Release Point Description: Exhaust Stack for separator for 15-70D

Operating Status: Operating

Base Elevation (ft): 6772.0

- Stack Details

Stack Height (ft): 20.0

Stack Diameter (ft): 0.5

Exit Gas Velocity (ft/s): 0.99

Exit Gas Flow Rate (acfm): 0.99

Exit Gas Temp (F): 0.99

- Release Latitude and Longitude

Latitude: 41.61068

Longitude: -107.9428

- CEM Data

| Description | H2S | SO2 | NOX | CO | THC | HCL | HFL | O | TRS | CO2 | FLOW | OPACITY | PM |
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|

Release Point : VER005

Sep 23 2015, 08:08:44

- Release Point Information

Release Point ID: VER005

Release Type: Vertical

AQD Description:

Company Release Point ID: Htr 58-120D

Company Release Point Description: Exhaust Stack for 15-120D

Operating Status: Operating

Base Elevation (ft): 6772.0

- Stack Details

Stack Height (ft): 20.0

Stack Diameter (ft): 0.5

Exit Gas Velocity (ft/s): 0.99

Exit Gas Flow Rate (acfm): 0.99

Exit Gas Temp (F): 0.99

- Release Latitude and Longitude

Latitude: 41.61068

Longitude: -107.9428

- CEM Data

| Description | H2S | SO2 | NOX | CO | THC | HCL | HFL | O | TRS | CO2 | FLOW | OPACITY | PM |
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|

Release Point : VER006

Sep 23 2015, 08:08:44

- Release Point Information

Release Point ID: VER006
Release Type: Vertical
AQD Description:
Company Release Point ID: Htr Stack
Company Release Point Description: Burner associated with T-pak
Operating Status: Operating
Base Elevation (ft): 6772.0

- Stack Details

Stack Height (ft): 20.0
Stack Diameter (ft): 0.5
Exit Gas Velocity (ft/s): 0.99
Exit Gas Flow Rate (acfm): 0.99
Exit Gas Temp (F): 0.99

- Release Latitude and Longitude

Latitude: 41.61068

Longitude: -107.9428

- CEM Data

| Description | H2S | SO2 | NOX | CO | THC | HCL | HFL | O | TRS | CO2 | FLOW | OPACITY | PM |
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|

Release Point : VER007

Sep 23 2015, 08:08:44

- Release Point Information

Release Point ID: VER007

Release Type: Vertical

AQD Description:

Company Release Point ID: Line Htr 1

Company Release Point Description: 1 of 2 Heaters on Line Heater

Operating Status: Operating

Base Elevation (ft): 6772.0

- Stack Details

Stack Height (ft): 20.0

Stack Diameter (ft): 0.5

Exit Gas Velocity (ft/s): 0.99

Exit Gas Flow Rate (acfm): 0.99

Exit Gas Temp (F): 0.99

- Release Latitude and Longitude

Latitude: 41.61068

Longitude: -107.9428

- CEM Data

| Description | H2S | SO2 | NOX | CO | THC | HCL | HFL | O | TRS | CO2 | FLOW | OPACITY | PM |
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|

Release Point : VER008

Sep 23 2015, 08:08:44

- Release Point Information

Release Point ID: VER008

Release Type: Vertical

AQD Description:

Company Release Point ID: Line Htr 2

Company Release Point Description: 2 of 2 Heaters on Line Heater

Operating Status: Operating

Base Elevation (ft): 6772.0

- Stack Details

Stack Height (ft): 20.0

Stack Diameter (ft): 0.5

Exit Gas Velocity (ft/s): 0.99

Exit Gas Flow Rate (acfm): 0.99

Exit Gas Temp (F): 0.99

- Release Latitude and Longitude

Latitude: 41.61068

Longitude: -107.9428

- CEM Data

| Description | H2S | SO2 | NOX | CO | THC | HCL | HFL | O | TRS | CO2 | FLOW | OPACITY | PM |
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|

Release Point : VER009

Sep 23 2015, 08:08:44

- Release Point Information

Release Point ID: VER009

Release Type: Vertical

AQD Description:

Company Release Point ID: SCC Stack

Company Release Point Description: Smokeless Combustion Chamber Stack(s)

Operating Status: Operating

Base Elevation (ft): 6772.0

- Stack Details

Stack Height (ft): 20.0

Stack Diameter (ft): 3.0

Exit Gas Velocity (ft/s): 0.99

Exit Gas Flow Rate (acfm): 0.99

Exit Gas Temp (F): 0.99

- Release Latitude and Longitude

Latitude: 41.61068

Longitude: -107.9428

- CEM Data

| Description | H2S | SO2 | NOX | CO | THC | HCL | HFL | O | TRS | CO2 | FLOW | OPACITY | PM |
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|

Release Point : VER010

Sep 23 2015, 08:08:44

- Release Point Information

Release Point ID: VER010
Release Type: Vertical
AQD Description:
Company Release Point ID: Truck Load
Company Release Point Description: Truck Loading from Oil and Gas Site
Operating Status: Operating
Base Elevation (ft): 6772.0

- Stack Details

Stack Height (ft): 20.0
Stack Diameter (ft): 0.5
Exit Gas Velocity (ft/s): 0.99
Exit Gas Flow Rate (acfm): 0.99
Exit Gas Temp (F): 0.99

- Release Latitude and Longitude

Latitude: 41.61068

Longitude: -107.9428

- CEM Data

| Description | H2S | SO2 | NOX | CO | THC | HCL | HFL | O | TRS | CO2 | FLOW | OPACITY | PM |
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|

Release Point : VER001

Sep 23 2015, 08:08:44

- Release Point Information

Release Point ID: VER001

Release Type: Vertical

AQD Description:

Company Release Point ID: VRU Exhaust

Company Release Point Description: Exhaust from NG compressor associated with VRU

Operating Status: Not Operating

Base Elevation (ft): 6772.0

- Stack Details

Stack Height (ft): 15.0

Stack Diameter (ft): 0.5

Exit Gas Velocity (ft/s): 0.0

Exit Gas Flow Rate (acfm): 0.0

Exit Gas Temp (F): 1350.0

- Release Latitude and Longitude

Latitude: 41.61068

Longitude: -107.9428

- CEM Data

| Description | H2S | SO2 | NOX | CO | THC | HCL | HFL | O | TRS | CO2 | FLOW | OPACITY | PM |
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|
|-------------|-----|-----|-----|----|-----|-----|-----|---|-----|-----|------|---------|----|