



MICHELLE LUJAN GRISHAM
GOVERNOR

JAMES C. KENNEY
CABINET SECRETARY

**AIR QUALITY BUREAU
NEW SOURCE REVIEW PERMIT
Issued under 20.2.72 NMAC**

Certified Mail No: **DRAFT as of August 3, 2022**
Return Receipt Requested

NSR Permit No: 6832-M8
Facility Name: Chevron Salado Draw 23 Compressor Station &
Tank Battery

Permittee Name: Chevron USA, Inc.
Mailing Address: 6301 Deauville Blvd.
N3203
Midland, TX 79706

TEMPO/IDEA ID No: 36802 - PRN20210001
AIRS No: 35-025-1010

Permitting Action: Significant Permit Revision
Source Classification: Synthetic Minor > 80

Facility Location: 627,889 m E by 3,545,246 m N, Zone 13;
Datum NAD83

County: Lea

Air Quality Bureau Contact Joseph Mashburn
Main AQB Phone No. (505) 476-4300

Liz Bisbey-Kuehn
Bureau Chief
Air Quality Bureau

Date

Template version: 06/30/2021

TABLE OF CONTENTS

Part A FACILITY SPECIFIC REQUIREMENTSA3

 A100 Introduction..... A3

 A101 Permit Duration (expiration)..... A3

 A102 Facility: Description..... A3

 A103 Facility: Applicable Regulations..... A4

 A104 Facility: Regulated Sources A5

 A105 Facility: Control Equipment A7

 A106 Facility: Allowable Emissions A7

 A107 Facility: Allowable Startup, Shutdown, & Maintenance (SSM) and Malfunction Emissions A9

 A108 Facility: Allowable Operations A12

 A109 Facility: Reporting Schedules A12

 A110 Facility: Fuel and Fuel Sulfur Requirements A12

 A111 Facility: 20.2.61 NMAC Opacity..... A12

 A112 Facility: Haul Roads – Not Required..... A13

 A113 Facility: Initial Location Requirements – Not Required..... A13

 A114 Facility: Relocation Requirements..... A13

EQUIPMENT SPECIFIC REQUIREMENTSA14

Oil and Gas IndustryA14

 A200 Oil and Gas Industry A14

 A201 Engines..... A14

 A202 Glycol Dehydrators..... A16

 A203 Tanks and VRUs..... A17

 A204 Heaters/Boilers..... A22

 A205 Turbines – Not Required..... A22

 A206 Flares..... A22

 A207 Sulfur Recovery Unit – Not Required A27

 A208 Amine Unit – Not Required..... A27

 A209 Fugitives..... A27

 A210 Acid Gas Injection – Not Required..... A28

 A211 Miscellaneous A28

PART B GENERAL CONDITIONS (Attached)

PART C MISCELLANEOUS: Supporting On-Line Documents; Definitions; Acronyms (Attached)

PART A FACILITY SPECIFIC REQUIREMENTS

A100 Introduction

- A. This permit, NSR 6832M8, supersedes all portions of Air Quality Permit 6832M7, issued January 14, 2020, except portions requiring compliance tests. Compliance test conditions from previous permits, if not completed, are still in effect, in addition to compliance test requirements contained in this permit.

A101 Permit Duration (expiration)

- A. The term of this permit is permanent unless withdrawn or cancelled by the Department.

A102 Facility: Description

- A. The function of the facility is to remove water and hydrocarbon liquids from natural gas produced in the surrounding area, and to compress the gas into a pipeline for delivery to a processing plant.
- B. This facility is located approximately 27.1 miles SW of Jal, New Mexico in Lea County.
- C. This modification consists of updating the gas analyses, updating tank working and standing emissions calculations, and due to the updated gas analyses, the glycol dehydrator emissions estimation and the ProMax simulation were rerun with the updated values. DHY-2 is removed. The description of this modification is for informational purposes only and is not enforceable.
- D. Tables 102.A and Table 102.B show the total potential emission rates (PER) from this facility for information only. This is not an enforceable condition and excludes emissions from Minor NSR exempt activities per 20.2.72.202 NMAC.

Table 102.A: Total Potential Emission Rate (PER) from Entire Facility

Pollutant	Emissions (tons per year)
Nitrogen Oxides (NO _x)	50.2
Carbon Monoxide (CO)	32.3
Volatile Organic Compounds (VOC) ¹	108.6
Sulfur Dioxide (SO ₂)	13.5
Particulate Matter 10 microns or less (PM ₁₀)	3.2
Particulate Matter 2.5 microns or less (PM _{2.5})	3.2
Hydrogen Sulfide (H ₂ S)	0.001

1. VOC total includes emissions from Fugitives and SSM.

Table 102.B: Total Potential Emissions Rate (PER) for *Hazardous Air Pollutants (HAPs) that exceed 1.0 ton per year

Pollutant	Emissions (tons per year)
Formaldehyde	3.6
n-hexane	1.5
Total HAPs**	6.8

* HAP emissions are already included in the VOC emission total.

** The total HAP emissions may not agree with the sum of individual HAPs because only individual HAPs greater than 1.0 tons per year are listed here.

A103 Facility: Applicable Regulations

- A. The permittee shall comply with all applicable sections of the requirements listed in Table 103.A.

Table 103.A: Applicable Requirements

Applicable Requirements	Federally Enforceable	Unit No.
20.2.1 NMAC General Provisions	X	Entire facility
20.2.3 NMAC Ambient Air Quality Standards	X	Entire facility
20.2.7 NMAC Excess Emissions	X	Entire facility
2.2.38 NMAC Hydrocarbon Storage Facilities	X	TK-1, TK-2, TK-3, TK-S2
20.2.61 NMAC Smoke and Visible Emissions	X	ENG-1, ENG-2, ENG-3, ENG-4, HTR-1, HTR-2, HTR-3, HTR-4, HTR-5, HTR-6, REB-1, FLARE
20.2.72 NMAC Construction Permit	X	Entire facility
20.2.73 NMAC Notice of Intent and Emissions Inventory Requirements	X	Entire facility
20.2.75 NMAC Construction Permit Fees	X	Entire facility
20.2.77 NMAC New Source Performance Standards	X	ENG-1, ENG-2, ENG-3, and ENG-4; Compressors associated with: ENG-1, ENG-2, ENG-3, and ENG-4; FUG; VRU-1, VRU-2, VRU-3, and VRU-4
20.2.82 NMAC Maximum Achievable Control Technology Standards for Source Categories of HAPs	X	ENG-1, ENG-2, ENG-3, ENG-4, and DHY-1
40 CFR 50 National Ambient Air Quality Standards	X	Entire facility

Table 103.A: Applicable Requirements

Applicable Requirements	Federally Enforceable	Unit No.
40 CFR 60, Subpart A, General Provisions	X	ENG-1, ENG-2, ENG-3, and ENG-4; Compressors associated with: ENG-1, ENG-2, ENG-3, and ENG-4; FUG; VRU-1, VRU-2, VRU-3, and VRU-4
40 CFR 60, Subpart JJJJ	X	ENG-1, ENG-2, ENG-3, and ENG-4
40 CFR 60, Subpart OOOOa	X	Compressors associated with: ENG-1, ENG-2, ENG-3, and ENG-4; FUG; VRU-1, VRU-2, VRU-3, and VRU-4
40 CFR 63, Subpart A, General Provisions	X	ENG-1, ENG-2, ENG-3, ENG-4, and DHY-1
40 CFR 63, Subpart HH	X	DHY-1
40 CFR 63, Subpart ZZZZ	X	ENG-1, ENG-2, ENG-3, and ENG-4

A104 Facility: Regulated Sources

- A. Table 104.A lists the emission units authorized for this facility. Emission units identified as exempt activities (as defined in 20.2.72.202 NMAC) and/or equipment not regulated pursuant to the Act are not included.

Table 104.A: Regulated Sources List

Unit No.	Source Description	Make	Model	Serial No.	Construction/Reconstruction Date	Manufacture Date	Manufacturer Rated Capacity /Permitted Capacity
ENG-1	4SLB RICE	Caterpillar	G3606	JEF0152	February 2019	February 2019	1875 hp
ENG-2	4SLB RICE	Caterpillar	G3606	JEF01499	February 2019	February 2019	1875 hp
ENG-3	4SLB RICE	Caterpillar	G3606	TBD	TBD	TBD	1875 hp
ENG-4	4SLB RICE	Caterpillar	G3606	TBD	TBD	TBD	1875 hp
HTR-1	Heater Treater	Unknown	Unknown	UA501-004	April 2016	NA	4 MM BTU/h
HTR-2	Heater Treater	Unknown	Unknown	112875	April 2016	NA	4 MM BTU/h
HTR-3	Heater Treater	Unknown	Unknown	112871	April 2016	NA	4 MM BTU/h
HTR-4	Heater Treater	Unknown	Unknown	Unknown	April 2016	NA	4 MM BTU/h
HTR-5	Heater Treater	Unknown	Unknown	Unknown	April 2016	NA	4 MM BTU/h
HTR-6	Heater Treater	Unknown	Unknown	Unknown	April 2016	NA	4 MM BTU/h
REB-1	Reboiler	Exterran	Unknown	Unknown	April 2016	Unknown	1 MM BTU/h
DHY-1	Glycol Dehy Still Vent/Flash Tank	Exterran	Unknown	Unknown	April 2016	Unknown	45 MMscf/day
FLARE	Process Flare	Zeeco	Unknown	Unknown	April 2016	TBD	60 MMSCFD/ 89.2 Mscf/h

Table 104.A: Regulated Sources List

Unit No.	Source Description	Make	Model	Serial No.	Construction/ Reconstruction Date	Manufacture Date	Manufacturer Rated Capacity /Permitted Capacity
LOAD	Water Truck Loading	NA	NA	NA	April 2016	NA	200 bbl/hr
TK-1	Condensate Storage Tank	Unknown	Unknown	Unknown	April 2016	NA	750 bbl
TK-2	Condensate Storage Tank	Unknown	Unknown	Unknown	April 2016	NA	750 bbl
TK-3	Condensate Storage Tank	Unknown	Unknown	Unknown	April 2016	NA	750 bbl
PW-1	Produced Water Storage Tank	Unknown	Unknown	Unknown	April 2016	NA	750 bbl
PW-2	Produced Water Storage Tank	Unknown	Unknown	Unknown	April 2016	NA	750 bbl
PW-3	Produced Water Storage Tank	Unknown	Unknown	Unknown	April 2016	NA	750 bbl
PW-4	Produced Water Storage Tank	Unknown	Unknown	Unknown	January 2020	NA	750 bbl
TK-S1	Water Slop Tank	Dragon	Unknown	Unknown	April 2016	NA	100 bbl
TK-S2	Condensate Slop Tank	Dragon	Unknown	Unknown	April 2016	NA	750 bbl
VRU-1	Vapor Recovery Unit	Flogistix	FZPV16	0086-106	April 2016	NA	600 MSCFD
VRU-2	Vapor Recovery Unit	Flogistix	FZPV16	0086-97	April 2016	NA	600 MSCFD
VRU-3	Vapor Recovery Unit	Flogistix	FZPV16	0086-124	April 2016	NA	600 MSCFD
VRU-4	Vapor Recovery Unit	Flogistix	304-163-001	16SF14-294	January 2020	NA	1.25 MMSCFD
FUG	Fugitives	NA	NA	NA	April 2016	NA	NA
SITE-SSM	Stack/Vent/Blowdowns	NA	NA	NA	April 2016	NA	NA
MALF	Malfunction Activities	NA	NA	NA	NA	NA	NA
FGC-1 ²	Flash Gas Compressor	Flogistix	FZPV16 & 304-163-001	0086-97 & 16SF14-294	April 2016	2015	600 MSCFD

1. All TBD (to be determined) units and like-kind engine replacements must be evaluated for applicability to NSPS and MACT requirements.

2. This FGC-1 unit does not have emissions associated with normal operations, but SSM emissions are reflected in Table 107.A under SITE-SSM.

A105 Facility: Control Equipment

- A. Table 105 lists all the pollution control equipment required for this facility. Each emission point is identified by the same number that was assigned to it in the permit application.

Table 105: Control Equipment List:

Control Equipment Unit No.	Control Description	Pollutant being controlled	Control for Unit Number(s) ¹
CAT-1	Oxidation Catalyst	CO, VOC, HCHO	ENG-1
CAT-2	Oxidation Catalyst	CO, VOC, HCHO	ENG-2
CAT-3	Oxidation Catalyst	CO, VOC, HCHO	ENG-3
CAT-4	Oxidation Catalyst	CO, VOC, HCHO	ENG-4
VRU-1, VRU-2, and VRU-4	Primary & Redundant Vapor Recovery Units for 3 condensate & 4 produced water tanks.	VOC, H ₂ S	TK-1, TK-2, TK-3, PW-1, PW-2, PW-3, PW-4
VRU-3	Single Vapor Recovery Unit for one 750 bbl condensate slop tank.	VOC, H ₂ S	TK-S2
FLARE	FLARE controlling SSM Emissions	VOC, H ₂ S	SSM-Flaring (predictable startup & shutdowns from power outages, shut-ins, compressor shutdowns)
COND	BTEX condenser	VOC, H ₂ S	DHY-1
REB-1	Reboiler with a Glow-plug for when reboiler cycles off	VOC, H ₂ S	DHY-1

1. Control for unit number refers to a unit number from the Regulated Equipment List

A106 Facility: Allowable Emissions

- A. The following Section lists the emission units and their allowable emission limits. (40 CFR 50, 40 CFR 60, Subparts A, JJJJ, OOOOa; 40 CFR 63 Subparts A, HH, ZZZZ; 20.2.72.210.A and B.1 NMAC).

Table 106.A: Allowable Emissions

Unit No.	NO _x ¹ pph	NO _x ¹ tpy	CO pph	CO tpy	VOC pph	VOC tpy	SO ₂ pph	SO ₂ tpy	H ₂ S (pph)	H ₂ S (tpy)
ENG-1	2.1	9.0	0.8	3.4	3.1	13.3	0.3	1.3	-	-
ENG-2	2.1	9.0	0.8	3.4	3.1	13.3	0.3	1.3	-	-
ENG-3	2.1	9.0	0.8	3.4	3.1	13.3	0.3	1.3	-	-
ENG-4	2.1	9.0	0.8	3.4	3.1	13.3	0.3	1.3	-	-
HTR-1	<	1.9	<	1.6	<	<	<	1.2	-	-

Unit No.	NO _x ¹ pph	NO _x ¹ tpy	CO pph	CO tpy	VOC pph	VOC tpy	SO ₂ pph	SO ₂ tpy	H ₂ S (pph)	H ₂ S (tpy)
HTR-2	<	1.9	<	1.6	<	<	<	1.2	-	-
HTR-3	<	1.9	<	1.6	<	<	<	1.2	-	-
HTR-4	<	1.9	<	1.6	<	<	<	1.2	-	-
HTR-5	<	1.9	<	1.6	<	<	<	1.2	-	-
HTR-6	<	1.9	<	1.6	<	<	<	1.2	-	-
REB-1	<	<	<	<	<	<	<	<	-	-
DHY-1	-	-	-	-	1.4	6.1	-	-	0	0
FLARE (pilot) ²	0.1	0.4	0.3	1.5	0.2	1.1	0.001	0.004	0	0.00004
LOAD	-	-	-	-	*	<	-	-	<	<
TK-1	-	-	-	-	0	0	-	-	0	0
TK-2	-	-	-	-	0	0	-	-	0	0
TK-3	-	-	-	-	0	0	-	-	0	0
PW-1	-	-	-	-	0	0	-	-	0	0
PW-2	-	-	-	-	0	0	-	-	0	0
PW-3	-	-	-	-	0	0	-	-	0	0
PW-4	-	-	-	-	0	0	-	-	0	0
TK-S1	-	-	-	-	<	<	-	-	<	<
TK-S2	-	-	-	-	0.8	3.3	-	-	0	0
FUG	-	-	-	-	6.2	27.0	-	-	<	<
FGC-1	-	-	-	-	0	0	-	-	-	-

1 Nitrogen dioxide emissions include all oxides of nitrogen expressed as NO₂

2 SSM flaring is permitted in Table 107A. Steady-state/pilot-purge is noted in above table.

3 To report excess emissions for sources with no pound per hour and/or ton per year emission limits, see condition B110F.

“-” indicates the application represented emissions of this pollutant are not expected.

“<” indicates that the application represented the uncontrolled mass emission rates are less than 1.0 pph or 1.0 tpy for this emissions unit and this air pollutant.

“*” indicates hourly emission limits are not appropriate for this operating situation.

A107 Facility: Allowable Startup, Shutdown, & Maintenance (SSM) and Malfunction Emissions

A. The maximum allowable SSM and Malfunction emission limits for this facility are listed in Table 107.A and were relied upon by the Department to determine compliance with applicable regulations.

Table 107.A: Allowable SSM and Malfunction Units, Activities, and Emission Limits

Unit No.	Description	NOx (pph)	NOx (tpy)	CO (pph)	CO (tpy)	VOC (pph)	VOC (tpy)	SOx (pph)	SOx (tpy)	H ₂ S (pph)	H ₂ S (tpy)
SITE-SSM from Compressors, VRU's & Dehydrators	¹ Compressor & Associated Piping Blowdowns during Routine and Predictable Startup, Shutdown, and/or Maintenance (SSM)					*	2.7			<	<
MALF	¹ Venting of Gas Due to Malfunction						10				
SSM Flaring	Predictable & routine startup and shutdown from power outages; operations at associated facilities; or compressor shutdowns & downtimes.	12.9	1.8	51.4	7.3	33.2	4.6	0.1	0.6	0.001	0.0002

- This authorization does not include VOC combustion emissions.
 “<” indicates the application represented that uncontrolled venting, blowdown, or pigging emissions of H₂S are less than 0.1 pph or 0.44 tpy. Allowable limits, monitoring, and recordkeeping are not required on this level of H₂S venting, blowdown, or pigging emissions.
 “*” indicates hourly emission limits are not appropriate for this operating situation.
- To report excess emissions for sources with no pound per hour and/or ton per year emission limits, see condition B110F.

B. The authorization of emission limits for startup, shutdown, maintenance, and malfunction does not supersede the requirements to minimize emissions according to General Conditions B101.F and B107.A.

C. SSM VOC Emissions (Unit SITE-SSM)

Requirement: The permittee shall perform a facility inlet gas analysis once every year based on a calendar year and complete the following recordkeeping to demonstrate compliance with routine and predictable startup, shutdown, and maintenance (SSM) emission limits in Table 107.A.

Monitoring: The permittee shall monitor the permitted routine and predictable startups and shutdowns and scheduled maintenance events.

Recordkeeping:

- (1) To demonstrate compliance, each month records shall be kept of the cumulative total of VOC emissions during the first 12 months due to SSM events and, thereafter of the monthly rolling 12-month total VOC emissions.
- (2) Records shall also be kept of the inlet gas analysis, the percent VOC of the gas based on the most recent gas analysis, and of the volume of total gas vented in MMscf used to calculate the VOC emissions due to SSM events.
- (3) The permittee shall record the demonstrated compliance in accordance with Condition B109, except the requirement in B109.C to record the start and end times of SSM events shall not apply to the venting of known quantities of VOC.

Reporting: The permittee shall report in accordance with Section B110.

D. SSM Flaring Emissions (Flare SSM)

Requirement: Compliance with routine or predictable startup, shutdown, and maintenance (SSM) emission limits in Table 107.A shall be demonstrated by operating the flare in accordance with the requirements of Condition A206.A, A206.B, A206.C, and A206.D of this permit and completing monitoring and recordkeeping as specified below.

Emissions Due to Preventable Events

Emissions that are due entirely or in part to poor maintenance, careless operation, or any other preventable equipment breakdown shall not be included under SSM emissions limits. These emissions shall be reported as excess emissions in accordance with 20.2.7.110 NMAC.

Monitoring: The permittee shall monitor the date, time, cause, and duration of routine or predictable startup, shutdown, and scheduled maintenance events.

Recordkeeping: The permittee shall maintain records of all calculations and parameters used to determine emission rates in spreadsheet format and in accordance with Condition B109.

(1) Hourly Emissions Calculations: The permittee shall calculate the pph NO_x, CO, VOC, SO₂, and H₂S emission rates for each hour of each SSM event using these parameters:

- (a) the calculated average hourly flow rate of all gas combusted by the flare, including pilot, purge, and assist gas, if applicable, from Condition A206.B;
- (b) H₂S content, total sulfur content, VOC content, and heating value (BTU/scf) of the gas from Condition A206.B;
- (c) the emission factors represented in the permit application and approved by the Department, for NO_x and CO emission rates; and
- (d) VOC and H₂S emission rates calculated using the destruction efficiency represented in the permit application and approved by the Department.

(2) Annual Emissions Calculations: The permittee shall calculate the total tpy SSM emission rates as a monthly rolling 12-month total, using the pph emission rates for each hour of the month as follows:

- (a) During the first 12 months of this condition taking effect, the permittee shall record the monthly total tons of NO_x, CO, VOC, SO₂, and H₂S emissions.
- (b) After the first 12 months of this condition taking affect, the permittee shall record the monthly rolling 12-month total tpy NO_x, CO, VOC, SO₂, and H₂S emissions.

(3) SSM Events: The permittee shall retain monitoring records, including the date, time, and duration of each SSM event, as well as a description of the event including maintenance performed.

Reporting: The permittee shall report in accordance with Condition B110.

E. Malfunction Emissions (MALF)

Requirement: The permittee shall perform a facility inlet gas analysis once every year based on a calendar year and complete the following recordkeeping to demonstrate compliance with malfunction (MALF) emission limits in Table 107.A.

Monitoring: The permittee shall monitor all malfunction events that result in VOC emissions including identification of the equipment or activity that is the source of emissions.

Recordkeeping:

- (1) To demonstrate compliance, each month records shall be kept of the cumulative total of VOC emissions due to malfunction events during the first 12 months and, thereafter of the monthly rolling 12-month total VOC emissions due to malfunction events.
- (2) Records shall also be kept of the inlet gas analysis, the percent VOC of the gas based on the most recent gas analysis, of the volume of total gas vented in MMscf used to calculate the VOC emissions, and whether the emissions resulting from the event will be used toward the permitted malfunction emission limit or whether the event is reported as excess emissions of the pound per hour limits in Table 106.A (or the pound per hour limits in condition B110F, if applicable), under 20.2.7 NMAC.
- (3) The permittee shall record the demonstrated compliance in accordance with Condition B109, except the requirement in B109.C to record the start and end times of malfunction

events shall not apply to the venting of known quantities of VOC.

Reporting: The permittee shall report in accordance with Section B110.

A108 Facility: Allowable Operations

- A. This facility is authorized for continuous operation. Monitoring, recordkeeping, and reporting are not required to demonstrate compliance with continuous hours of operation.

A109 Facility: Reporting Schedules

- A. The permittee shall report according to the Specific Conditions and General Conditions of this permit.

A110 Facility: Fuel and Fuel Sulfur Requirements

- A. Fuel and Fuel Sulfur Requirements

Requirement: All combustion emission units shall combust only natural gas containing no more than 10 grains of total sulfur per 100 dry standard cubic feet.

Monitoring: No monitoring is required. Compliance is demonstrated through records.

Recordkeeping:

- (1) The permittee shall demonstrate compliance with the natural gas or fuel oil limit on total sulfur content by maintaining records of a current, valid purchase contract, tariff sheet or transportation contract for the gaseous or liquid fuel, or fuel gas analysis, specifying the allowable limit or less.
- (2) If fuel gas analysis is used, the analysis shall not be older than one year.
- (3) Alternatively, compliance shall be demonstrated by keeping a receipt or invoice from a commercial fuel supplier, with each fuel delivery, which shall include the delivery date, the fuel type delivered, the amount of fuel delivered, and the maximum sulfur content of the fuel.

Reporting: The permittee shall report in accordance with Section B110.

A111 Facility: 20.2.61 NMAC Opacity

- A. 20.2.61 NMAC Opacity Limit (Units ENG-1, ENG-2, ENG-3, ENG-4, HTR-1, HTR-2, HTR-3, HTR-4, HTR-5, HTR-6, REB-1, FLARE)

Requirement: Visible emissions from all stationary combustion emission stacks shall not equal or exceed an opacity of 20 percent in accordance with the requirements at 20.2.61.109 NMAC.
--

Monitoring:

- (1) Use of natural gas fuel constitutes compliance with 20.2.61 NMAC unless opacity equals or exceeds 20% averaged over a 10-minute period. When any visible emissions are observed during operation other than during startup mode, opacity shall be measured over a 10-minute period, in accordance with the procedures at 40 CFR 60, Appendix A, Reference Method 9 (EPA Method 9) as required by 20.2.61.114 NMAC, or the operator will be allowed to shut down the equipment to perform maintenance/repair to eliminate the visible emissions. Following completion of equipment maintenance/repair, the operator shall conduct visible emission observations following startup in accordance with the following procedures:
- (a) Visible emissions observations shall be conducted over a 10-minute period during operation after completion of startup mode in accordance with the procedures at 40 CFR 60, Appendix A, Reference Method 22 (EPA Method 22). If no visible emissions are observed, no further action is required.
 - (b) If any visible emissions are observed during completion of the EPA Method 22 observation, subsequent opacity observations shall be conducted over a 10-minute period, in accordance with the procedures at EPA Method 9 as required by 20.2.61.114 NMAC.

For the purposes of this condition, *Startup mode* is defined as the startup period that is described in the facility's startup plan.

Recordkeeping:

- (1) If any visible emissions observations were conducted, the permittee shall keep records in accordance with the requirements of Section B109 and as follows:
- (a) For any visible emissions observations conducted in accordance with EPA Method 22, record the information on the form referenced in EPA Method 22, Section 11.2.
 - (b) For any opacity observations conducted in accordance with the requirements of EPA Method 9, record the information on the form referenced in EPA Method 9, Sections 2.2 and 2.4.

Reporting: The permittee shall report in accordance with Section B110.

A112 Facility: Haul Roads – Not Required

A113 Facility: Initial Location Requirements – Not Required

A114 Facility: Relocation Requirements

- A. This facility may not be relocated.

EQUIPMENT SPECIFIC REQUIREMENTS

OIL AND GAS INDUSTRY

A200 Oil and Gas Industry

A. This section has common equipment related to most Oil and Gas Operations.

A201 Engines

A. Periodic Emissions Testing (Units ENG-1, ENG-2, ENG-3, and ENG-4)

Requirement: Compliance with the allowable emission limits in Table 106.A shall be demonstrated by completing periodic emission tests during the monitoring period.

Monitoring: The permittee shall test using a portable analyzer or EPA Reference Methods subject to the requirements and limitations of Section B108, General Monitoring Requirements. Emission testing is required for NOx and CO and shall be carried out as described below.

Test results that demonstrate compliance with the CO emission limits shall also be considered to demonstrate compliance with the VOC emission limits.

For units with g/hp-hr emission limits, in addition to the requirements stated in Section B108, the engine load shall be calculated by using the following equation:

$$\text{Load (Hp)} = \frac{\text{Fuel consumption (scfh)} \times \text{Measured fuel heating value (LHV btu/scf)}}{\text{Manufacturer's rated BSFC (btu/bhp-hr) at 100\% load or best efficiency}}$$

- (1) The testing shall be conducted as follows:
 - (a) Testing frequency shall be once per quarter.
 - (b) The monitoring period is defined as a calendar quarter.
- (2) The first test shall occur within the first monitoring period occurring after permit issuance or within the first monitoring period after completion of the initial compliance test, if applicable.
- (3) All subsequent monitoring shall occur in each succeeding monitoring period. No two monitoring events shall occur closer together in time than 25% of a monitoring period.
- (4) The permittee shall follow the General Testing Procedures of Section B111.
- (5) Performance testing required by 40 CFR 60, Subpart JJJJ or 40 CFR 63, Subpart ZZZZ may be used to satisfy these periodic testing requirements if they meet the requirements of this condition and are completed during the specified monitoring period.

Recordkeeping: The permittee shall maintain records in accordance with Section B109, B110, and B111.

Reporting: The permittee shall report in accordance with Section B109, B110, and B111.

B. Initial Compliance Test (Units ENG-3, and ENG-4)

<p>Requirement: Compliance with the allowable emission limits in Table 106.A shall be demonstrated by performing an initial compliance test.</p>
<p>Monitoring: The permittee shall perform an initial compliance test in accordance with the General Testing Requirements of Section B111. Emission testing is required for NOx and CO. Test results that demonstrate compliance with the CO emission limits shall also be considered to demonstrate compliance with the VOC emission limits.</p> <p>The monitoring exemptions of Section B108 do not apply to this requirement.</p> <p>For units with g/hp-hr emission limits, the engine load shall be calculated by using the following equation: $\text{Load (Hp)} = \frac{\text{Fuel consumption (scfh)} \times \text{Measured fuel heating value (LHV btu/scf)}}{\text{Manufacturer's rated BSFC (btu/bhp-hr) at 100\% load or best efficiency}}$</p>
<p>Recordkeeping: The permittee shall maintain records in accordance with the applicable Sections in B109, B110, and B111.</p>
<p>Reporting: The permittee shall report in accordance with the applicable Sections in B109, B110, and B111.</p>

C. Catalytic Converter Operation (Units ENG-1, ENG-2, ENG-3, and ENG-4)

<p>Requirement: Compliance with the allowable emission limits in Table 106.A shall be demonstrated by:</p> <p>(1) The units shall be equipped and operated with an oxidation catalytic converter to control CO, VOC, and HAP emissions.</p> <p>The permittee shall maintain the units according to manufacturer's or supplier's recommended maintenance, including replacement of oxygen sensor as necessary for oxygen-based controllers.</p>
<p>Monitoring: The unit(s) shall be operated with the catalytic converter, which includes catalyst maintenance periods. During periods of catalyst maintenance, the permittee shall either (1) shut down the engine(s); or (2) replace the catalyst with a functionally equivalent spare to allow the engine to remain in operation.</p>
<p>Recordkeeping: The permittee shall maintain records in accordance with Section B109.</p>
<p>Reporting: The permittee shall report in accordance with Section B110.</p>

D. 40 CFR 60, Subpart JJJJ (Units ENG-1, ENG-2, ENG-3, and ENG-4)

<p>Requirement: The units are subject to 40 CFR 60, Subparts A and JJJJ and shall comply with the notification requirements in Subpart A and the specific requirements of Subpart JJJJ.</p>
<p>Monitoring: The permittee shall comply with all applicable monitoring requirements in 40 CFR 60, Subpart A and Subpart JJJJ, including but not limited to 60.4243.</p>

Recordkeeping: The permittee shall comply with all applicable recordkeeping requirements in 40 CFR 60, Subpart A and Subpart JJJJ, including but not limited to 60.4245.

Reporting: The permittee shall comply with all applicable reporting requirements in 40 CFR 60, Subpart A and Subpart JJJJ, including but not limited to 60.4245.

E. 40 CFR 63, Subpart ZZZZ (Units ENG-1, ENG-2, ENG-3, and ENG-4)

Requirement: The units are subject to 40 CFR 63, Subpart ZZZZ and the permittee shall comply with all applicable requirements of Subpart A and Subpart ZZZZ.

Monitoring: The permittee shall comply with all applicable monitoring requirements of 40 CFR 63, Subpart A and Subpart ZZZZ.

Recordkeeping: The permittee shall comply with all applicable recordkeeping requirements of 40 CFR 63, Subpart A and Subpart ZZZZ, including but not limited to 63.6655 and 63.10.

Reporting: The permittee shall comply with all applicable reporting requirements of 40 CFR 63, Subpart A and ZZZZ, including but not limited to 63.6645, 63.6650, 63.9, and 63.10.

A202 Glycol Dehydrators

A. Extended Gas Analysis and GRI-GLYCalc calculation (Unit DHY-1)

Requirement: Compliance with the allowable VOC emission limits in Table 106.A shall be demonstrated by conducting an extended gas analysis on the dehydrator inlet gas annually and by calculating emissions using GRI-GLYCalc.

Monitoring: The permittee shall conduct an annual GRI-GLYCalc analysis using the most recent extended gas analysis and verify the input data. The permittee may use a method of calculating dehydrator emissions other than the most current version of GRI-GLYCalc if approved by the Department. Changes in the calculated emissions due solely to a change in the calculation methodology shall not be deemed an exceedance of an emission limit.

Recordkeeping: The permittee shall identify in a summary table all parameters that were used as inputs in the GRI-GLYCalc model. The permittee shall keep a record of the results, noting the VOC and HAP emission rates for the dehydrator obtained from estimates using GRI-GLYCalc.

Reporting: The permittee shall report in accordance with Section B110.

B. Glycol pump circulation rate (Unit DHY-1)

Requirement: Compliance with the allowable VOC emission limits in Table 106.A shall be demonstrated by monitoring the glycol pump circulation rate for the dehydration unit, and it shall not exceed 552 gallons per hour (9.2 gallons per minute).

Monitoring: The permittee shall monitor the circulation rate quarterly, based on a calendar quarter (January 1st through March 31st, April 1 through June 30th, July 1st through September 30th, and October 1st through December 31st). Monitoring shall include a visual inspection of

pump rate setting.

Recordkeeping: The permittee shall maintain records that include a description of the monitoring and are in accordance with Section B109.
--

Reporting: The permittee shall report in accordance with Section B110.

C. Control Device Inspection (Unit DHY-1, REB-1)

Requirement: To demonstrate compliance with the allowable VOC emission limits in Table 106.A:
--

- | |
|---|
| <ol style="list-style-type: none"> (1) The still vent emissions (Unit: DHY-1) shall be routed at all times to the associated condenser. (2) The flash tank vent shall be routed at all times to a process point that allows the off-gas to be recycled and recompressed, and not vented to the atmosphere. (3) All the non-condensed hydrocarbon vapors from the condenser associated with the DHY-1 shall be routed directly to the firebox of the reboiler and/or glowplug (Unit REB-1) and destroyed. (4) The condenser associated with (Unit: DEHY-1), the reboiler (Unit: REB-1), and the glowplug shall be operational at all times the facility is in operation and shall be installed, operated, and maintained according to manufacturers' specifications. |
|---|

Monitoring: The permittee shall inspect the glycol dehydrator and the control equipment semi-annually to ensure it is operating in accordance with the manufacturer's recommended procedures.
--

Recordkeeping: The permittee shall record the inspection and the results of all equipment and control device inspections chronologically, noting any maintenance or repairs needed to bring the dehydrator into compliance. The permittee shall maintain a copy of the manufacturer's maintenance recommendations.

Reporting: The permittee shall report in accordance with Section B110.

D. 40 CFR 63, Subpart HH (Unit DHY-1)

Requirement: The unit is subject to 40 CFR 63, Subpart HH and the permittee shall comply with all applicable requirements.

Monitoring: The permittee shall monitor as required by 40 CFR 63.772(b)(2) to demonstrate facility is exempt from general standards.

Recordkeeping: The permittee shall generate and maintain the records required by 40 CFR 63.774(d)(1)(ii) to demonstrate compliance with the general standard exemptions found in 40 CFR 63.764(e).

Reporting: The permittee shall meet all applicable reporting in 40 CFR 63, Subparts A and HH and in Section B110.
--

A203 Tanks and VRUs

A. Condensate Tank Throughput (Units TK-1, TK-2 & TK-3)

Requirement: Compliance with the allowable emission limits in Table 106.A for Units TK-1, TK-2 & TK-3 shall be demonstrated by limiting the monthly rolling 12-month total condensate throughput to the facility to 344,925,000 gallons per year (8,212,500 barrels/year).

Monitoring: The permittee shall monitor the monthly total throughput to each tank once per month.

Recordkeeping: The permittee shall record:

- (1) The monthly total throughput of liquids and,
- (2) Each month, the permittee shall use these values to calculate and record:
 - (a) During the first 12 months of monitoring, the cumulative total liquid throughput; and
 - (b) After the first 12 months of monitoring, the monthly rolling 12-month total liquid throughput.
- (3) Annually, the permittee shall calculate pre-control tank breathing, working, and flashing emissions that were calculated using EPA's AP-42 Section 7.1 and the gas-oil-ratio (GOR). Emission rates computed using the same parameters, but with a different Department approved algorithm that exceed these values, will not be deemed in non-compliance with this permit.

Records shall be maintained in accordance with Section B109.

Reporting: The permittee shall report in accordance with Section B110.

B. Water Tank Throughput (Units PW-1, PW-2, PW-3, & PW-4)

Requirement: Compliance with the allowable emission limits in Table 106.A for Units PW-1, PW-2 & PW-3 shall be demonstrated by limiting the monthly rolling 12-month total water throughput to the facility to 850,815,000 gallons per year (20,257,500 barrels/year).

Monitoring: The permittee shall monitor the monthly total throughput to each tank once per month.

Recordkeeping: The permittee shall record:

- (1) The monthly total throughput of liquids and,
- (2) Each month the permittee shall use these values to calculate and record:
 - (a) During the first 12 months of monitoring, the cumulative total liquid throughput; and
 - (b) After the first 12 months of monitoring, the monthly rolling 12-month total liquid throughput.
- (3) Annually, the permittee shall calculate pre-control tank breathing, working, and flashing emissions that were calculated using EPA's AP-42 Section 7.1 and the gas-water-ratio (GWR). Emission rates computed using the same parameters, but with a different Department approved algorithm that exceed these values, will not be deemed in non-compliance with this permit.

Records shall be maintained in accordance with Section B109.

Reporting: The permittee shall report in accordance with Section B110.

C. Condensate Slop Oil Tank Throughput (Unit TK-S2)

Requirement: Compliance with the allowable emission limits in Table 106.A for Unit TK-S2 shall be demonstrated by limiting the monthly rolling 12-month total condensate slop oil

throughput to Unit TK-S2 to 1,533,000 gallons per year (36,500 barrels/year) and limiting the monthly rolling 12-month average separator pressure to less than 125 psia.
Monitoring: The permittee shall monitor the monthly total throughput to the tank and the upstream separator pressure once per month.
Recordkeeping: The permittee shall record: <ul style="list-style-type: none"> (1) The monthly total throughput of liquids and, (2) The monthly separator pressure. (3) Each month, the permittee shall use these values to calculate and record: <ul style="list-style-type: none"> (a) During the first 12 months of monitoring, the cumulative total liquid throughput; and after the first 12 months of monitoring, the monthly rolling 12-month total liquid throughput. (b) During the first 12 months of monitoring, the average separator pressure, and after the first 12 months of monitoring, the monthly rolling 12-month average separator pressure. (4) Annually, the permittee shall calculate pre-control tank breathing, working, and flashing emissions that were calculated using EPA's AP-42 Section 7.1 and the gas-oil-ratio (GOR). Emission rates computed using the same parameters, but with a different Department approved algorithm that exceed these values, will not be deemed in non-compliance with this permit. <p>Records shall be maintained in accordance with Section B109.</p>
Reporting: The permittee shall report in accordance with Section B110.

D. Slop Water Tank Throughput (Unit TK-S1)

Requirement: Compliance with the allowable emission limits in Table 106.A for Unit TK-S1 shall be demonstrated by limiting the monthly rolling 12-month total slop water throughput to Unit TK-S1 to 3,066,000 gallons per year (73,000 barrels/year).
Monitoring: The permittee shall monitor the monthly total throughput to the tank once per month.
Recordkeeping: The permittee shall record: <ul style="list-style-type: none"> (1) The monthly total throughput of liquids and, (2) Each month the permittee shall use these values to calculate and record: <ul style="list-style-type: none"> (a) During the first 12 months of monitoring, the cumulative total liquid throughput; and (b) After the first 12 months of monitoring, the monthly rolling 12-month total liquid throughput. (3) Annually, the permittee shall calculate pre-control tank breathing and working emissions that were calculated using EPA's AP-42 Section 7.1. Emission rates computed using the same parameters, but with a different Department approved algorithm that exceed these values will not be deemed in non-compliance with this permit. <p>Records shall be maintained in accordance with Section B109.</p>
Reporting: The permittee shall report in accordance with Section B110.

E. Redundant Vapor Recovery Units for Condensate and Produced Water Tanks (Units VRU-1, VRU-2, VRU-4, TK-1, TK-2, TK-3, PW-1, PW-2, PW-3, PW-4)

<p>Requirement: Compliance with the allowable emissions in Table 106.A for TK-1, TK-2, TK-3, PW-1, PW-2, PW-3, and PW-4 shall be demonstrated by the following:</p> <p>Redundant vapor recovery units (VRU-1, VRU-2, & VRU-4) shall capture all emissions from TK-1, TK-2, TK-3, PW-1, PW-2, PW-3 & PW-4 at all times and route all gas to sales.</p> <p>Emissions that are not captured by unit VRU-1 shall be routed to VRU-2. Emissions that are not captured by either VRU-1 or VRU-2 shall be routed to VRU-4. No emissions shall be vented to the atmosphere.</p>
<p>Monitoring: At least once per month, the permittee shall inspect VRU-1, VRU-2, VRU-4, TK-1, TK-2, TK-3, PW-1, PW-2, PW-3, PW-4, and associated piping for defects that could result in air emissions. Defects include, but are not limited to, visible cracks, holes, or gaps; broken, cracked, or otherwise damaged seals or gaskets on closure devices; and broken or missing hatches, access covers, caps, or other closure devices. In the event that a leak or defect is detected, the permittee shall repair the leak or defect as soon as practicable and in a manner that minimizes VOC and HAPs emissions to the atmosphere.</p> <p>The permittee shall monitor all VRU downtimes (Units VRU-1, VRU-2, and VRU-4).</p>
<p>Recordkeeping: The permittee shall record the name of the person conducting the inspections for defects and the results of the inspections chronologically; noting any maintenance or repairs that are required and when any required repairs are completed.</p> <p>The permittee shall record the date, start time, and end time of any downtime and/or maintenance of the VRUs (Units VRU-1, VRU-2, VRU-4). Any emissions resulting from VRU downtimes, that are not flared under SSM emissions limits, shall be reported under 20.2.7 NMAC.</p>
<p>Reporting: The permittee shall report in accordance with Section B110.</p>

F. Condensate Slop Oil Tank (Unit TK-S2), Vapor Recovery Unit (Unit VRU-3)

<p>Requirement: Compliance with the allowable emissions in Table 106.A for TK-S2 shall be demonstrated by the following:</p> <p>The vapor recovery unit (VRU-3) shall capture all emissions from TK-S2 and route all gas to sales.</p> <p>Emissions that are not captured by VRU-3, that are vented to atmosphere from TK-S2, shall not exceed the emissions for TK-S2 established in Table 106. A.</p>
<p>Monitoring At least once per month, the permittee shall inspect Units VRU-3 and TK-S2 and associated piping for defects that could result in air emissions. Defects include, but are not limited to, visible cracks, holes, or gaps; broken, cracked, or otherwise damaged seals or gaskets on closure devices; and broken or missing hatches, access covers, caps, or other closure devices. In the event that a leak or defect is detected, the permittee shall repair the leak or defect as soon as practicable and in a manner that minimizes VOC and HAPs emissions to the atmosphere.</p> <p>The permittee shall monitor all VRU (Unit VRU-3) downtime.</p>
<p>Recordkeeping: The permittee shall record the name of the person conducting the inspections for defects and the results of the inspections chronologically, noting any maintenance or repairs that are required and when any required repairs are completed.</p>

The permittee shall record the date, start time, and end time of any downtime and/or maintenance of the VRU (Unit VRU-3). Any emissions resulting from VRU downtime, that are not flared under SSM emissions limits, shall be reported under 20.2.7 NMAC.

Reporting: The permittee shall report in accordance with Section B110.

G. Truck Loading – Slop Water Loadout (Unit LOAD)

Requirement: Compliance with the allowable emission limits in Table 106.A shall be demonstrated by limiting the total annual produced water loadout volume to 3,066,000 gallons per year (73,000 barrels/year).

Monitoring: The permittee shall monitor the produced water truck loadout volume on a monthly basis.

Recordkeeping: The permittee shall record the monthly produced water truck loadout volume. Each month during the first 12 months of monitoring the permittee shall record the cumulative total produced water loadout volume; and after the first 12 months of monitoring, the permittee shall calculate and record a monthly rolling 12-month total produced water loadout volume.

Records shall also be maintained in accordance with Section B109.

Reporting: The permittee shall report in accordance with Section B110.

H. 20.2.38 NMAC, Hydrocarbon Storage Facilities (Units TK-1, TK-2, TK-3, and TK-S2)

Requirement: The permittee shall comply with 20.2.38.109 and 20.2.38.112 NMAC. The permittee shall install vapor recovery units to minimize hydrocarbon and hydrogen sulfide loss to the atmosphere and shall not operate the tanks without the control device.

Monitoring: The permittee shall monitor the tanks operation.

Recordkeeping: The permittee shall maintain records in accordance with Section B109.

Reporting: The permittee shall report in accordance with Section B110.

A204 Heaters/Boilers

- A. Operational Inspections of Heaters (Units HTR-1, HTR-2, HTR-3, HTR-4, HTR-5, HTR-6)

Requirement:

- (1) Compliance with the allowable emission limits in Table A106A shall be demonstrated by performing annual inspections to ensure proper operation of the heaters (HTR-1, HTR-2, HTR-3, HTR-4, HTR-5, HTR-6.)
- (2) At a minimum, the operational inspections shall meet those recommended by the manufacturer or shall meet the facility specific procedure submitted to the Department.
- (3) If the permittee is using a facility specific procedure, it shall submit an electronic version of the procedure to the Department's Permit Section Manager within 90 days of implementing the procedure. If the plan cannot be submitted within 90 days, the permittee shall obtain written approval to extend the deadline from the Department's Permit Section, either by regular or electronic mail. The permittee shall provide additional information or make changes to the plan as requested by the Department.
- (4) The permittee shall make changes or improvements to the inspection procedure based on experience with the unit and/or new information provided by the manufacturer. This updated procedure shall be made available to the Department upon request.

Monitoring:

- (1) Inspections shall be completed at least once per year or at the frequency recommended by the manufacturer.
- (2) At a minimum, inspections shall include the following:
 - (a) checking indicators to verify that the optimal amount of excess combustion air is introduced into the combustion process such as a blue colored, steady flame, and
 - (b) inspections of the unit's components and housing for cracks or worn parts.

Recordkeeping: The permittee shall maintain records in accordance with Section B109.

- (1) The permittee shall maintain records of operational inspections, including the indicators used to verify optimal excess combustion air, a description of the indicators, the unit component and housing inspections, and any adjustments needed to ensure optimal operation of the unit.
- (2) The permittee shall also keep records of the manufacturer's recommended procedure and shall keep records of the percent of excess combustion air required for optimal performance.
- (3) The permittee shall maintain records in accordance with Section B109.

Reporting: The permittee shall report in accordance with Section B110.**A205 Turbines – Not Required****A206 Flares**

- A. Flare Flame & Visible Emissions (20.2.61 NMAC) (Unit FLARE)

Requirement: Compliance with the allowable emission limits in Table 106.A shall be

demonstrated by the flare being equipped with a system to ensure that it is operated with a flame present at all times and operated with no visible emissions.

The flare is subject to the 20% opacity standards in 20.2.61 NMAC and complying with the no visible emissions requirements demonstrates compliance with 20.2.61 NMAC opacity limit.

Monitoring:

- (1) **Flare Pilot Flame:** The permittee shall continuously monitor the presence of a flare pilot flame using a thermocouple or any equivalent device approved by the Department and shall be equipped with a continuous recorder and alarm or equivalent, to detect the presence of a flame.
- (2) **Visible Emissions:** Annually, the permittee shall conduct a visible emissions observation in accordance with the requirements at 40 CFR 60, Appendix A, Reference Method 22 to certify compliance with the no visible emission requirement on the process flare. The observation period is at least 2 consecutive hours where visible emissions are not to exceed a total of 5 minutes during any 2 consecutive hours.

At least once per year, during a shutdown event, the permittee shall conduct a visible emissions observation in accordance with the requirements at 40 CFR 60, Appendix A, Reference Method 22 to certify compliance with the no visible emission requirements. Each Method 22 test shall occur for the duration of the shutdown event or for 30 minutes, whichever is less. Visible emissions shall not occur for more than 5 minutes during any consecutive 30-minute period. For shutdown events that occur for less than 30 minutes, visible emissions shall not occur for more the 15% during the duration of the shutdown event.

If the flare is located at an unmanned site, used only for emergencies, and where there are no scheduled shutdown maintenance events to observe flare combustion, the permittee shall at a minimum conduct the visible emissions observation in accordance with the requirements of EPA Method 22 on the pilot flame.

Recordkeeping:

- (1) **Flare Pilot Flame:** The permittee shall record all instances of alarm activation, including the date and cause of alarm activation, actions taken to bring the flare into normal operating conditions, and maintenance activities.
- (2) **Visible Emissions:** For any visible emissions observations conducted in accordance with EPA Method 22, the permittee shall record the information on the form referenced in EPA Method 22, Section 11.2.

For any visible emissions observations, conducted in accordance with EPA Method 22, record the information on the form referenced in EPA Method 22, Section 11.2. If the visible emissions observation was conducted only on the pilot flame, the record shall also include the reasons that the test could not be conducted during a shutdown event.

Reporting: The permittee shall report in accordance with Section B110.

B. Flare Operation Requirement (Unit FLARE)

Requirement: Compliance with the allowable emission limits in Table 106.A shall be demonstrated by installing, operating, and maintaining the flare in accordance with the manufacturer's specifications. Compliance with the operating practices according to the

manufacturer's specifications demonstrates compliance with the opacity limits required by 20.2.61 NMAC.
Monitoring: The permittee shall inspect the flare monthly to ensure it is operating in accordance with the manufacturer's specifications.
Recordkeeping: The permittee shall maintain the following records in accordance with Section B109. (1) Record, chronologically, the name of the person conducting the inspection, the results of all equipment inspections, and any maintenance or repairs needed for the flare(s) to be compliant. (a) Maintain a copy of the manufacturer's maintenance recommendations.
Reporting: The permittee shall report in accordance with Section B110.

C. Flare Gas Flow Monitoring and Gas Analysis (Unit FLARE)

Requirement: Compliance with the flare allowable emission limits in Table 106.A shall be demonstrated by completing the monitoring, recordkeeping, and reporting required by this condition and Condition A206.D. All flow meters and inline monitors shall meet the minimum data capture and quality assurance requirements of Condition B108. H.
Monitoring: (1) Gas Flow Monitoring: (a) One or more gas flowmeters equipped with a chart recorder or data logger (electronic storage) shall be installed to continuously monitor the flow (scf) of gas sent to the flare. (b) Pilot, purge, and assist gas, if applicable, shall be monitored using a gas flowmeter under (a) or determined using manufacturer's specifications or engineering estimates. (2) Gas Analysis: (a) Once per calendar year, the permittee shall perform a gas analysis, including measurement of the H ₂ S content, total sulfur content, VOC content, and heating value (BTU/scf) of gas sent to the flare for combustion. Gas analyses shall be separated by a minimum of six (6) months. (b) Alternatively, for H ₂ S only, in lieu of an annual analysis, H ₂ S may be measured quarterly using a stain tube(s) of the appropriate size range or with an inline chemical composition analyzer. (3) Calibration: Flow meters and inline monitors shall be operated, calibrated, and maintained as specified by Condition B108.H and, if applicable, the site-specific operations and maintenance plan.

Recordkeeping: The following records shall be maintained in accordance with Condition B109.

(1) Gas Flow:

- (a) Records of continuous flowmeter measurements and the hourly flow rate in scf/hr calculated by averaging *a minimum* of four (4) equally spaced readings for each hour.
- (b) Manufacturer's specifications or engineering estimates used for pilot, purge, and assist (if applicable) gas flow rates.

(2) Gas Analysis: All sample documentation received from the laboratory or testing service company, including H₂S content, the total sulfur content, the VOC content, and the heating value (BTU/scf), analysis method utilized, and sample chain of custody. If stain tubes are used for measuring H₂S content, records of the results, including size range of stain tubes used, the date of the test, and the name of the person conducting the test.

(3) Calibration: Records of all flowmeter and inline monitor certifications, calibrations, data capture calculations and documentation as specified by Condition B108.H, as well as any breakdowns, reasons for the breakdown, and corrective actions. The permittee shall also maintain a copy of the manufacturer specifications for operation and calibration or the site-specific operations and maintenance plan for flowmeters and inline monitors.

Reporting: The permittee shall report in accordance with Condition B110.

D. Flare Parametric Monitoring (Unit FLARE)

Requirement: The permittee shall operate the flare in accordance with the requirements specified in recordkeeping below.

Monitoring: The permittee shall monitor the flare in accordance with Conditions A.206.A - D.

Recordkeeping:

- (1) The permittee shall use the information recorded in Condition A.206.C to calculate the flow rate to determine if the facility meets the velocity requirements of this Condition.
- (2) The maximum tip velocity of the flare, (V_{max}), shall be determined annually, and records kept demonstrating that the actual flare tip velocity does not exceed the allowable V_{max} . The maximum permitted velocity (i.e., the greater of either calculated V_{max} , 60 ft/sec or 400 ft/sec, based on method (a), (b), or (c) below) shall be recorded as feet/second and the corresponding total flow rate to the flare in MMscf/hour shall be used to compare to the actual volumetric flow rate (at STP) to demonstrate compliance with the maximum velocity permitted.

Compliance shall be determined utilizing either method (a), (b), or (c) below:

- (a) Actual tip velocity less than 60 feet per second (ft/sec) for gases having a lower heating value less than 1000 Btu/ft³ will be in compliance with this requirement.
- (b) Actual tip velocity less than 400 ft/sec for gases having a lower heating value greater than 1000 Btu/ft³ will be in compliance with this requirement.
- (c) Actual tip velocity less than the calculated maximum velocity (V_{max}) using the following equations will be in compliance with this requirement. The calculated V_{max} shall be based on the weighted mean heating value of the inlet gas plus supplemental fuel gas.

V_{max} of the flare shall be calculated annually and determined using the following equation:

$$\text{Log}10 (V_{max})=(HT + 28.8)/31.7$$

V_{max} =Maximum permitted velocity, M/sec

28.8=Constant

31.7=Constant

HT =The net heating value is determined using the following equation:

$$H_T = K \left[\sum_{i=1}^n C_i H_i \right]$$

where:

H_T =Net heating value of the sample, MJ/scm; where the net enthalpy per mole of off-gas is based on combustion at 25 °C and 760 mm Hg, but the standard temperature for determining the volume corresponding to one mole is 20 °C;

$$K = \text{Constant, } 1.740 \times 10^{-7} \left(\frac{1}{\text{ppm}} \right) \left(\frac{\text{g mole}}{\text{scm}} \right) \left(\frac{\text{MJ}}{\text{kcal}} \right)$$

where the standard temperature for $\left(\frac{\text{g mole}}{\text{scm}} \right)$ is 20°C;

C_i =Concentration of sample component “i” in ppm on a wet basis, as measured for organics by Reference Method 18 and measured for hydrogen and carbon monoxide by ASTM D1946-77 or 90 (Reapproved 1994); and

H_i =Net heat of combustion of sample component i, kcal/g mole at 25 °C and 760 mm Hg. The heats of combustion may be determined using ASTM D2382-76 or 88 or D4809-95

The maximum permitted velocity, V_{max} , for air-assisted flares shall be determined by the following equation:

$$V_{max}=8.706 + 0.7084 (HT)$$

V_{max} =Maximum permitted velocity, m/sec

8.706=Constant

0.7084=Constant

H_T =The net heating value as determined above.

(3) The permittee shall maintain records in accordance with Section B109.

Reporting: The permittee shall report in accordance with Section B110.

A207 Sulfur Recovery Unit – Not Required

A208 Amine Unit – Not Required

A209 Fugitives

A. 40 CFR 60, Subpart OOOOa – Fugitives (Unit FUG)

Requirement: The facility is subject to 40 CFR 60, Subparts A and OOOOa if the affected facility is constructed, modified, or reconstructed after the applicability date in 40 CFR 60.5365a and meets the applicability criteria specified at §60.5365a(j). The permittee shall comply with the notification requirements in Subpart A and the specific requirements of Subpart OOOOa, including standards in §60.5397a.

Monitoring: The permittee shall comply with all applicable monitoring requirements in 40 CFR 60, Subpart A and Subpart OOOOa, including but not limited to §60.5397a (or §60.5398a as approved by the US EPA), §60.5410a, and §60.5415a.

Recordkeeping: The permittee shall comply with all applicable recordkeeping requirements in 40 CFR 60, Subpart A and Subpart OOOOa, including but not limited to §60.5420a.

Reporting: The permittee shall comply with all applicable reporting requirements in 40 CFR 60, Subpart A and Subpart OOOOa, including but not limited to §60.5420a, and in Section B110.

B. 40 CFR60, Subpart OOOOa – Fugitives (Units Reciprocating compressors associated with ENG-1, ENG-2, ENG-3, and ENG-4)

Requirement: The units are subject to 40 CFR 60, Subparts A and OOOOa if the affected facility is constructed, modified, or reconstructed after the applicability date in 40 CFR 60.5365a and meets the applicability criteria specified at §60.5365a(c). The permittee shall comply with the notification requirements in Subpart A and the specific requirements of Subpart OOOOa, including standards in §60.5385a.

Monitoring: The permittee shall comply with all applicable monitoring requirements in 40 CFR 60, Subpart A and Subpart OOOOa, including but not limited to §60.5410a and §60.5415a(c).

Recordkeeping: The permittee shall comply with all applicable recordkeeping requirements in 40 CFR 60, Subpart A and Subpart OOOOa, including but not limited to §60.5415a(c) and §60.5420a.

Reporting: The permittee shall comply with all applicable reporting requirements in 40 CFR 60, Subpart A and Subpart OOOOa, including but not limited to §60.5420a, and in Section B110.

C. 40 CFR 60, Subpart OOOOa – Fugitives (Units VRU-1, VRU-2, VRU-3, VRU-4, and closed vent system)

<p>Requirement: The units are subject to 40 CFR 60, Subparts A and OOOOa if the affected facility is constructed, modified, or reconstructed after the applicability date in 40 CFR 60.5365a and meets the applicability criteria specified at §60.5365a(j). The permittee shall comply with the notification requirements in Subpart A and the specific requirements of Subpart OOOOa, including standards in §60.5397a.</p>
<p>Monitoring: The permittee shall comply with all applicable monitoring requirements in 40 CFR 60, Subpart A and Subpart OOOOa, including but not limited to §60.5397a (or §60.5398a as approved by the US EPA), §60.5410a, and §60.5415a.</p>
<p>Recordkeeping: The permittee shall comply with all applicable recordkeeping requirements in 40 CFR 60, Subpart A and Subpart OOOOa, including but not limited to §60.5420a.</p>
<p>Reporting: The permittee shall comply with all applicable reporting requirements in 40 CFR 60, Subpart A and Subpart OOOOa, including but not limited to §60.5420a, and in Section B110.</p>

A210 Acid Gas Injection – Not Required

A211 Miscellaneous

A. Flash Gas Compressor (FGC-1)

<p>Requirement: Compliance with the allowable emission limits in Tables 106.A and 107.A shall be demonstrated by operating the FGC-1 at all times by routing process gas from the heater treaters to the scrubber. FGC-1 shall not vent to the atmosphere, except during allowable blowdowns under SITE-SSM.</p>
<p>Monitoring: At least once per month, the permittee shall inspect the FGC-1 for defects that could result in air emissions. In the event that a leak or defect is detected, the permittee shall repair the leak or defect as soon as practicable and in a manner that minimizes VOC emissions to the atmosphere.</p>
<p>Recordkeeping: The permittee shall record the results of monthly inspections chronologically, noting any maintenance or repairs that are required.</p>
<p>Reporting: The permittee shall report in accordance with Section B110.</p>

PART B GENERAL CONDITIONS (Attached)

PART C MISCELLANEOUS: Supporting On-Line Documents; Definitions; Acronyms (Attached)