

**NEW MEXICO 20.2.70 NMAC APPLICATION  
TO MODIFY PERMIT NUMBER P097-R3 (Revision 1)**

**KUTZ CANYON PROCESSING PLANT**

**Submitted By:**



**HARVEST FOUR CORNERS, LLC  
1755 Arroyo Drive  
Bloomfield, New Mexico 87413**

**Prepared By:**

**CIRRUS CONSULTING, LLC  
951 Diestel Road  
Salt Lake City, Utah 84105  
(801) 484-4412**

**April 2021 (Original)  
January 2022 (Revision 1)**

## Introduction

The Harvest Four Corners, LLC (HFC) Kutz Canyon Processing Plant currently operates under a construction permit issued by the New Mexico Air Quality Bureau (NMAQB), 0301-M11-R1, dated March 31, 2020 and a Title V operating permit, P097-R3, dated August 3, 2018.

The facility is currently approved by the Title V operating permit to operate the following equipment/sources:

- Six Solar Centaur 40 turbines (Units 1-6);
- Three Solar Saturn 1200 turbines (Units 7, 8 & 29);
- Three Clark HRA-8 reciprocating engines (Units 16-18);
- Two Solar Centaur 3016 turbines (Units 19 & 20);
- One Wheco heater (Unit 22);
- One Alcorn heater (Unit 23);
- One ethylene glycol (EG) dehydrator (Units 24a & 24b);
- One Born glycol heater (Unit 25);
- One Born hot oil heater (Unit 27);
- One plant flare (Unit 28);
- One Pesco fuel gas heater (Unit 30);
- One Cummins 6BTA 208-2100 reciprocating fire pump engine (Unit 32);
- One Ford 428 reciprocating standby fire pump engine (Unit 33);
- One Caterpillar D343 reciprocating standby generator engine (Unit 34)
- One triethylene glycol (TEG) dehydrator (Units 35a & 35b);
- One Zeeco flare (Unit 36);
- One Waukesha L5794LT or L7042GL reciprocating engine (Unit 37a or 37b);
- Truck loading (Unit 38);
- Three cooling towers (Units 39-41);
- One amine contactor (Unit 75);
- One Kohler 8.5RES reciprocating standby generator (Unit 76)

- Six liquid storage tanks (Units T3, T30, T31, T6438, T6528 & T6529);
- Equipment leaks (Unit F1);
- Startup, shutdown and maintenance (SSM) emissions (Unit SSM); and
- Malfunction emissions (Unit M1).

Note that the facility is also equipped with a number of other miscellaneous heaters and liquid storage tanks, for which emissions are insignificant.

**This application was originally submitted to modify the Title V operating permit.** It incorporated an NSR administrative revision dated May 10, 2021 (0301-M11-R2). Under this revision the following modifications were included in the application.

The following equipment was added to the permit:

- One Infab TEG mole sieve regeneration dehydrator (Units 77a & 77b)

The Kutz I portion of the plant was retired:

- Three Clark HRA-8 reciprocating engines (Units 16-18);
- One Wheco heater (Unit 22);
- One Alcorn heater (Unit 23);
- One EG dehydrator (Units 24a & 24b);
- One Solar Saturn 1200 turbine (Unit 29);
- One Waukesha L5794LT or L7042GL reciprocating engine (Unit 37a or 37b);
- One cooling tower (Unit 39); and
- One condensate storage tank (Unit T6438) with its associated ejector vapor recovery unit EVRU and EVRU heater (Unit 74).

The following equipment was removed from the facility (it is located more than 0.25 miles away):

- One Pesco fuel gas heater (Unit 30).

**This application is being revised to both renew and modify the Title V operating permit.** In addition to the changes identified above, the following additional modifications have been added to this application as a part of the revision:

- Under the NSR administrative revision dated May 28, 2021 (0301-M11-R3), Unit 2 was replaced.
- Under the NSR administrative revision dated July 9, 2021 (0301-M11-R4), Unit 5 was replaced.

- Under the NSR administrative revision dated July 23, 2021 (0301-M11-R5), Unit 19 was replaced.
- Under the NSR administrative revision dated November 2, 2021 (0301-M11-R6), Unit T6528 will store flare separator liquids rather than condensate.
- An administrative revision being submitted to remove Unit 34 from the NSR permit. Consequently, Unit 34 is also being removed from the Title V permit.

<b>Mail Application To:</b>  New Mexico Environment Department Air Quality Bureau Permits Section 525 Camino de los Marquez, Suite 1 Santa Fe, New Mexico, 87505  Phone: (505) 476-4300 Fax: (505) 476-4375 www.env.nm.gov/aqb		<b>For Department use only:</b>           AIRS No.:
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## Universal Air Quality Permit Application

### Use this application for NOI, NSR, or Title V sources.

Use this application for: the initial application, modifications, technical revisions, and renewals. For technical revisions, complete Sections, 1-A, 1-B, 2-E, 3, 9 and any other sections that are relevant to the requested action; coordination with the Air Quality Bureau permit staff prior to submittal is encouraged to clarify submittal requirements and to determine if more or less than these sections of the application are needed. Use this application for streamline permits as well. [See Section 1-I for submittal instructions for other permits.](#)

**This application is submitted as** (check all that apply):  Request for a No Permit Required Determination (no fee)  
 **Updating** an application currently under NMED review. Include this page and all pages that are being updated (no fee required).  
 Construction Status:  Not Constructed  Existing Permitted (or NOI) Facility  Existing Non-permitted (or NOI) Facility  
 Minor Source:  a NOI 20.2.73 NMAC  20.2.72 NMAC application or revision  20.2.72.300 NMAC Streamline application  
 Title V Source:  Title V (new)  Title V renewal  TV minor mod.  TV significant mod. TV Acid Rain:  New  Renewal  
 PSD Major Source:  PSD major source (new)  minor modification to a PSD source  a PSD major modification

### Acknowledgements:

- I acknowledge that a pre-application meeting is available to me upon request.  Title V Operating, Title IV Acid Rain, and NPR applications have no fees.
- \$500 NSR application Filing Fee enclosed **OR**  The full permit fee associated with 10 fee points (required w/ streamline applications).
- Check No.: XXXX in the amount of XXXX
- I acknowledge the required submittal format for the hard copy application is printed double sided 'head-to-toe', 2-hole punched (except the Sect. 2 landscape tables is printed 'head-to-head'), numbered tab separators. Incl. a copy of the check on a separate page.
- This facility qualifies to receive assistance from the Small Business Environmental Assistance program (SBEAP) and qualifies for 50% of the normal application and permit fees. Enclosed is a check for 50% of the normal application fee which will be verified with the Small Business Certification Form for your company.
- This facility qualifies to receive assistance from the Small Business Environmental Assistance Program (SBEAP) but does not qualify for 50% of the normal application and permit fees. To see if you qualify for SBEAP assistance and for the small business certification form go to [https://www.env.nm.gov/aqb/sbap/small\\_business\\_criteria.html](https://www.env.nm.gov/aqb/sbap/small_business_criteria.html)).

**Citation:** Please provide the **low level citation** under which this application is being submitted: **20.2.70.300.B(2) NMAC** (e.g. application for a new minor source would be 20.2.72.200.A NMAC, one example for a Technical Permit Revision is 20.2.72.219.B.1.b NMAC, a Title V acid rain application would be: 20.2.70.200.C NMAC)

## Section 1 – Facility Information

### Section 1-A: Company Information

		AI # if known (see 1 <sup>st</sup> 3 to 5 #s of permit IDEA ID No.): <b>1158</b>	Updating Permit/NOI #: <b>P097-R3</b>
1	Facility Name: <b>Kutz Canyon Processing Plant</b>	Plant primary SIC Code (4 digits): <b>1321</b>	
		Plant NAIC code (6 digits): <b>211130</b>	
a	Facility Street Address (If no facility street address, provide directions from a prominent landmark): <b>See directions in Section 1-D4</b>		
2	Plant Operator Company Name: <b>Harvest Four Corners, LLC</b>	Phone/Fax: <b>(505) 632-4600 / (505) 632-4782</b>	
a	Plant Operator Address: <b>1755 Arroyo Drive, Bloomfield, New Mexico 87413</b>		

**Table 2-A: Regulated Emission Sources**

Unit and stack numbering must correspond throughout the application package. If applying for a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply.

Unit Number <sup>1</sup>	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity <sup>3</sup> (Specify Units)	Requested Permitted Capacity <sup>3</sup> (Specify Units)	Date of Manufacture <sup>2</sup>	Controlled by Unit #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) <sup>4</sup>	Replacing Unit No.
							Date of Construction/Reconstruction <sup>2</sup>	Emissions vented to Stack #				
1 (Y1)	Turbine (Compressor)	Solar	Centaur 40	OHD09-C1224 (Skid Package # S3020297)	3,830 hp	3,692 hp	07/01/1975	N/A	20200201	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
							07/01/1975	1				
2 (Y2)	Turbine (Compressor)	Solar	Centaur 40	OHA20-C6508 (Skid Package # S3020300)	3,830 hp	3,692 hp	07/01/1975	N/A	20200201	<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input checked="" type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
							07/01/1975	2				
3 (Y3)	Turbine (Compressor)	Solar	Centaur 40	OHJ11-C3296 (Skid Package # S3020298)	3,830 hp	3,692 hp	07/01/1975	N/A	20200201	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
							07/01/1975	3				
4 (Y4)	Turbine (Compressor)	Solar	Centaur 40	OHI11-C8297 (Skid Package # S3020291)	3,830 hp	3,692 hp	07/01/1975	N/A	20200201	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
							07/01/1975	4				
5 (K4)	Turbine (Compressor)	Solar	Centaur 40	OHI19-C0009 (Skid Package # 3020451)	3,830 hp	3,692 hp	10/01/1975	N/A	20200201	<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input checked="" type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
							10/01/1975	5				
6 (K5)	Turbine (Compressor)	Solar	Centaur 40	OHF12-C4675 (Skid Package # 3020450)	3,830 hp	3,692 hp	10/01/1975	N/A	20200201	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
							10/01/1975	6				
7 (K6)	Turbine (Compressor)	Solar	Saturn 1200	OHE10-S4226 (Skid Package # S430870)	1,200 hp	1,157 hp	10/01/1976	N/A	20200201	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
							10/01/1976	7				
8 (K7)	Turbine (Compressor)	Solar	Saturn 1200	OHF10-S2522 (Skid Package # S430869)	1,200 hp	1,157 hp	10/01/1976	N/A	20200201	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
							10/01/1976	8				
16 (R4)	Reciprocating Engine (Compressor)	Clark	HRA-8	22369	830 hp	723 hp	Pre-1973	N/A	20200253	<input type="checkbox"/> Existing (unchanged) <input checked="" type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	2SLB	NA
							Pre-1973	16				
17 (R5)	Reciprocating Engine (Compressor)	Clark	HRA-8	20643	830 hp	723 hp	Pre-1973	N/A	20200253	<input type="checkbox"/> Existing (unchanged) <input checked="" type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	2SLB	NA
							Pre-1973	17				
18 (R6)	Reciprocating Engine (Compressor)	Clark	HRA-8	22370	830 hp	723 hp	Pre-1973	N/A	20200253	<input type="checkbox"/> Existing (unchanged) <input checked="" type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	2SLB	NA
							Pre-1973	18				
19 (Gen A)	Turbine (Generator)	Solar	Centaur 40	OHA20-C1150 (Skid Package # CG81584)	3,016 hp	2,907 hp	06/01/1981	N/A	20100201	<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input checked="" type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
							06/01/1981	19				
20 (Gen B)	Turbine (Generator)	Solar	Centaur 40	OHB12-C8510 (Skid Package # CG81583)	3,016 hp	2,907 hp	07/01/1981	N/A	20100201	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
							07/01/1981	20				
22 (H1)	Heater	Wheco			23.1 MMBtu/hr	23.1 MMBtu/hr	Pre-1973	N/A	31000404	<input type="checkbox"/> Existing (unchanged) <input checked="" type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
							Pre-1973	22				
23 (H2)	Heater	Alcorn			9.57 MMBtu/hr	9.57 MMBtu/hr	Pre-1973	N/A	31000404	<input type="checkbox"/> Existing (unchanged) <input checked="" type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
							Pre-1973	23				

**Table 2-A: Regulated Emission Sources**

Unit and stack numbering must correspond throughout the application package. If applying for a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply.

Unit Number <sup>1</sup>	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity <sup>3</sup> (Specify Units)	Requested Permitted Capacity <sup>3</sup> (Specify Units)	Date of Manufacture <sup>2</sup>	Controlled by Unit #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) <sup>4</sup>	Replacing Unit No.
							Date of Construction/ Reconstruction <sup>2</sup>	Emissions vented to Stack #				
24a	Kutz I Ethylene Glycol Dehydrator				110 MMSCFD	110 MMSCFD	Pre-1973	28	31000304	<input type="checkbox"/> Existing (unchanged) <input checked="" type="checkbox"/> <b>To be Removed</b> <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
24b (H3)	Kutz I Ethylene Glycol Dehydrator Reboiler	Parksburg			1.53 MMBtu/hr	1.53 MMBtu/hr	Pre-1973	N/A	31000304	<input type="checkbox"/> Existing (unchanged) <input checked="" type="checkbox"/> <b>To be Removed</b> <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
25 (H4)	Mole Sieve Regen Gas Heater	Born			8.15 MMBtu/hr	8.15 MMBtu/hr	1975	N/A	31000404	<input checked="" type="checkbox"/> <b>Existing (unchanged)</b> <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
27 (H6)	Hot Oil Heater	Born			8.35 MMBtu/hr	8.35 MMBtu/hr	1975	N/A	31000404	<input checked="" type="checkbox"/> <b>Existing (unchanged)</b> <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
28	Plant Flare				1.4 MMBtu/hr	1.4 MMBtu/hr	1996	N/A	31000205	<input checked="" type="checkbox"/> <b>Existing (unchanged)</b> <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
29 (N1)	Turbine	Solar	Saturn T-1200	OHF10-S2795 (Skid Package # SC78947)	1,200 hp	1,157 hp	11/01/1978	N/A	20200201	<input type="checkbox"/> Existing (unchanged) <input checked="" type="checkbox"/> <b>To be Removed</b> <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
30	Fuel Gas heater	Pesco			0.21 MMBtu/hr	0.21 MMBtu/hr	1999	N/A	31000404	<input type="checkbox"/> Existing (unchanged) <input checked="" type="checkbox"/> <b>To be Removed</b> <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
32	Main Water Pump Engine	Cummins	6BTA 208-2100	60259963	208 hp	208 hp	1988	N/A	20200202	<input checked="" type="checkbox"/> <b>Existing (unchanged)</b> <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	CI	NA
33	Auxiliary Water Pump Engine	Ford	428	441412	335 hp	335 hp	01/01/1970	N/A	20200202	<input checked="" type="checkbox"/> <b>Existing (unchanged)</b> <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	4SLB	NA
34	Standby Generator Engine	Caterpillar	D343	62B15287	390 hp	390 hp	1995	N/A	20100102	<input type="checkbox"/> Existing (unchanged) <input checked="" type="checkbox"/> <b>To be Removed</b> <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	CI	NA
35a	Kutz Chaco Dehydrator	Pesco			140 MMSCFD	140 MMSCFD	1984	36	31000301	<input checked="" type="checkbox"/> <b>Existing (unchanged)</b> <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
35b	Kutz Chaco Dehydrator Reboiler	Pesco			1.75 MMBtu/hr	1.75 MMBtu/hr	1984	N/A	31000302	<input checked="" type="checkbox"/> <b>Existing (unchanged)</b> <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
36	Flare	Zeeco			4 MMBtu/hr	4 MMBtu/hr	2002	N/A	31000205	<input checked="" type="checkbox"/> <b>Existing (unchanged)</b> <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
37a	Reciprocating Engine (Compressor)	Waukesha	L5794LT	C-13732/1 (Skid Package # 77572)	1,445 hp	1,416 hp	09/2002	N/A	20200254	<input type="checkbox"/> Existing (unchanged) <input checked="" type="checkbox"/> <b>To be Removed</b> <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	4SLB	NA
or 37b	Reciprocating Engine (Compressor)	Waukesha	L7042GL	TBD - not installed	1,478 hp	1,351 hp	TBD	N/A	20200254	<input type="checkbox"/> Existing (unchanged) <input checked="" type="checkbox"/> <b>To be Removed</b> <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	4SLB	NA

**Table 2-A: Regulated Emission Sources**

Unit and stack numbering must correspond throughout the application package. If applying for a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply.

Unit Number <sup>1</sup>	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity <sup>3</sup> (Specify Units)	Requested Permitted Capacity <sup>3</sup> (Specify Units)	Date of Manufacture <sup>2</sup>	Controlled by Unit #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) <sup>4</sup>	Replacing Unit No.
							Date of Construction/ Reconstruction <sup>2</sup>	Emissions vented to Stack #				
38	Truck Loading	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40400250	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
							N/A	N/A				
39	Cooling Tower							N/A	31000299	<input type="checkbox"/> Existing (unchanged) <input checked="" type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
								N/A				
40	Cooling Tower							N/A	31000299	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
								N/A				
41	Cooling Tower							N/A	31000299	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
								N/A				
75	Amine Contactor				350 gal/min	350 gal/min	1975	N/A	31000305	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
							1975	75				
76	Standby Generator	Kohler	8.5RES	3032042	13.4 hp	12.7 hp	05/2012	N/A	20100102	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	4SRB	NA
							05/2012	N/A				
77a	Mole Sieve Regen Dehydrator	TBD - not installed	TBD - not installed	TBD - not installed	20 MMSCFD	20 MMSCFD	TBD	28	31000301	<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input checked="" type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
							TBD	77a				
77b	Mole Sieve Regen Dehydrator Reboiler	TBD - not installed	TBD - not installed	TBD - not installed	1.48 MMBtu/hr	1.48 MMBtu/hr	TBD	N/A	31000302	<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input checked="" type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
							TBD	77b				
SSM	SSM							N/A	31000203	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
								N/A				
F1	Fugitive Equipment Leaks							N/A	31000299	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
								N/A				
M1	Malfunctions							N/A	31000299	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
								N/A				
T3	Flare Separator Liquid Atmospheric Bullet Tank				19,900 gal	19,900 gal		N/A	31000299	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
								N/A				
T31	Flare Separator Liquid Storage Tank				4,200 gal	4,200 gal		N/A	31000299	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
								N/A				
T109	Flare Separator Liquid Storage Tank				21,000 gal	21,000 gal		N/A	31000299	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
								N/A				
T6438	Blanco-Hare Condensate Storage Tank				21,000 gal	21,000 gal		N/A	31000299	<input type="checkbox"/> Existing (unchanged) <input checked="" type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
								N/A				



**Table 2-A: Regulated Emission Sources**

Unit and stack numbering must correspond throughout the application package. If applying for a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply.

Unit Number <sup>1</sup>	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity <sup>3</sup> (Specify Units)	Requested Permitted Capacity <sup>3</sup> (Specify Units)	Date of Manufacture <sup>2</sup>	Controlled by Unit #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) <sup>4</sup>	Replacing Unit No.
							Date of Construction/ Reconstruction <sup>2</sup>	Emissions vented to Stack #				
T6528	Flare Separator Liquid Storage Tank				21,000 gal	21,000 gal		N/A	31000299	<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input checked="" type="checkbox"/> <b>To Be Modified</b> <input type="checkbox"/> To be Replaced	NA	NA
								N/A				
T6529	Kutz-Dakota Condensate Storage Tank				21,000 gal	21,000 gal		N/A	31000299	<input checked="" type="checkbox"/> <b>Existing (unchanged)</b> <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
								N/A				
SEP-1	Kutz-Dakota Slug Receiver Separator				N/A	N/A		N/A	31000303	<input checked="" type="checkbox"/> <b>Existing (unchanged)</b> <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	NA	NA
								N/A				

<sup>1</sup> Unit numbers must correspond to unit numbers in the previous permit unless a complete cross reference table of all units in both permits is provided.

<sup>2</sup> Specify dates required to determine regulatory applicability.

<sup>3</sup> To properly account for power conversion efficiencies, generator set rated capacity shall be reported as the rated capacity of the engine in horsepower, not the kilowatt capacity of the generator set.

<sup>4</sup> "4SLB" means four stroke lean burn engine, "4SRB" means four stroke rich burn engine, "2SLB" means two stroke lean burn engine, "CI" means compression ignition, and "SI" means spark ignition

**Table 2-D: Maximum Emissions** (under normal operating conditions)

☐ **This Table was intentionally left blank because it would be identical to Table 2-E.**

Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) & Toxic Air Pollutants (TAPs) in Table 2-I. Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "--" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E-4).

Unit No.	NOx		CO		VOC		SOx		PM <sup>1</sup>		PM10 <sup>1</sup>		PM2.5 <sup>1</sup>		H <sub>2</sub> S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
1	15.50	67.90	14.70	64.40	4.47	19.60	2.90E-02	1.30E-01	2.30E-01	1.01	2.30E-01	1.01	2.30E-01	1.01	-	-	2.28E-05	1.00E-04
2	15.50	67.90	14.70	64.40	4.47	19.60	2.90E-02	1.30E-01	2.30E-01	1.01	2.30E-01	1.01	2.30E-01	1.01	-	-	2.28E-05	1.00E-04
3	15.50	67.90	14.70	64.40	4.47	19.60	2.90E-02	1.30E-01	2.30E-01	1.01	2.30E-01	1.01	2.30E-01	1.01	-	-	2.28E-05	1.00E-04
4	15.50	67.90	14.70	64.40	4.47	19.60	2.90E-02	1.30E-01	2.30E-01	1.01	2.30E-01	1.01	2.30E-01	1.01	-	-	2.28E-05	1.00E-04
5	15.50	67.90	14.70	64.40	4.47	19.60	2.90E-02	1.30E-01	2.30E-01	1.01	2.30E-01	1.01	2.30E-01	1.01	-	-	2.28E-05	1.00E-04
6	15.50	67.90	14.70	64.40	4.47	19.60	2.90E-02	1.30E-01	2.30E-01	1.01	2.30E-01	1.01	2.30E-01	1.01	-	-	2.28E-05	1.00E-04
7	4.32	18.90	6.47	28.40	2.50E-01	1.10	1.10E-02	4.60E-02	8.47E-02	3.71E-01	8.47E-02	3.71E-01	8.47E-02	3.71E-01	-	-	-	-
8	4.32	18.90	6.47	28.40	2.50E-01	1.10	1.10E-02	4.60E-02	8.47E-02	3.71E-01	8.47E-02	3.71E-01	8.47E-02	3.71E-01	-	-	-	-
19	15.50	67.90	14.70	64.40	4.47	19.60	2.30E-02	1.00E-01	1.81E-01	7.92E-01	1.81E-01	7.92E-01	1.81E-01	7.92E-01	-	-	2.28E-05	1.00E-04
20	15.50	67.90	14.70	64.40	4.47	19.60	2.30E-02	1.00E-01	1.81E-01	7.92E-01	1.81E-01	7.92E-01	1.81E-01	7.92E-01	-	-	2.28E-05	1.00E-04
25	1.09	4.76	2.30E-01	1.00	4.20E-02	1.80E-01	6.00E-03	2.60E-02	6.88E-02	3.01E-01	6.88E-02	3.01E-01	6.88E-02	3.01E-01	-	-	4.53E-06	1.98E-05
27	1.11	4.88	2.30E-01	1.00	4.30E-02	1.90E-01	6.00E-03	2.70E-02	7.05E-02	3.09E-01	7.05E-02	3.09E-01	7.05E-02	3.09E-01	-	-	4.64E-06	2.03E-05
28	-	-	-	-	453.58	773.26	-	-	-	-	-	-	-	-	-	-	4.38E-05	7.48E-05
35a	-	-	-	-	149.74	655.86	-	-	-	-	-	-	-	-	-	-	-	-
35b	1.94E-01	8.52E-01	1.63E-01	7.15E-01	1.07E-02	4.68E-02	1.17E-03	5.11E-03	1.48E-02	6.47E-02	1.48E-02	6.47E-02	1.48E-02	6.47E-02	-	-	9.72E-07	4.26E-06
36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	-	-	-	-	-	4.42	-	-	-	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	1.21E-01	5.30E-01	7.62E-02	3.34E-01	-	-	-	-	-	-
41	-	-	-	-	-	-	-	-	8.41E-02	3.68E-01	5.55E-02	2.43E-01	-	-	-	-	-	-
75	-	-	-	-	5.80	25.60	-	-	-	-	-	-	-	-	-	-	-	-
76	3.00E-01	7.49E-02	4.91E-01	1.23E-01	3.91E-03	9.77E-04	7.76E-05	1.94E-05	2.56E-03	6.41E-04	2.56E-03	6.41E-04	2.56E-03	6.41E-04	-	-	-	-
77a	-	-	-	-	56.76	248.62	-	-	-	-	-	-	-	-	-	-	-	-
77b	4.29E-02	1.88E-01	4.46E-02	1.95E-01	6.46E-03	2.83E-02	8.33E-04	3.65E-03	1.25E-02	5.49E-02	1.25E-02	5.49E-02	1.25E-02	5.49E-02	-	-	8.24E-07	3.61E-06
SSM	-	-	-	-	-	28.60	-	-	-	-	-	-	-	-	-	-	-	-
F1	-	-	-	-	3.51	15.37	-	-	-	-	-	-	-	-	-	-	-	-
M1	-	-	-	-	-	10.00	-	-	-	-	-	-	-	-	-	-	-	-
T3	-	-	-	-	1.37	6.00	-	-	-	-	-	-	-	-	-	-	-	-
T31	-	-	-	-	3.20E-01	1.40	-	-	-	-	-	-	-	-	-	-	-	-
T109	-	-	-	-	1.30	5.70	-	-	-	-	-	-	-	-	-	-	-	-
T6528	-	-	-	-	-	w/T3, T31 & T109	-	-	-	-	-	-	-	-	-	-	-	-

**Table 2-D: Maximum Emissions** (under normal operating conditions)

☐ **This Table was intentionally left blank because it would be identical to Table 2-E.**

Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) & Toxic Air Pollutants (TAPs) in Table 2-I. Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "--" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E-4).

Unit No.	NOx		CO		VOC		SOx		PM <sup>1</sup>		PM10 <sup>1</sup>		PM2.5 <sup>1</sup>		H <sub>2</sub> S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
T6529	-	-	-	-	-	164.00	-	-	-	-	-	-	-	-	-	-	-	-
SEP-1	-	-	-	-	-	w/T6528	-	-	-	-	-	-	-	-	-	-	-	-
In the absence of controls, the flares (Units 28 & 36) are not in operation.																		
Uncontrolled VOC emissions from plant ( in the absence of the plant flare) are accounted for at the plant flare (Unit 28).																		
<b>Totals</b>	135.38	591.75	131.70	575.03	708.75	2098.27	2.56E-01	1.13	2.28	9.99	2.21	9.67	2.08	9.10	-	-	2.37E-04	9.23E-04

<sup>1</sup>**Condensable Particulate Matter:** Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but PM is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).

**Table 2-E: Requested Allowable Emissions**

Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "--" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E<sup>-4</sup>).

Unit No.	NOx		CO		VOC		SOx		PM <sup>1</sup>		PM <sup>10</sup> <sup>1</sup>		PM <sup>2.5</sup> <sup>1</sup>		H <sub>2</sub> S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
1	15.50	67.90	14.70	64.40	4.47	19.60	2.90E-02	1.30E-01	2.30E-01	1.01	2.30E-01	1.01	2.30E-01	1.01	-	-	2.28E-05	1.00E-04
2	15.50	67.90	14.70	64.40	4.47	19.60	2.90E-02	1.30E-01	2.30E-01	1.01	2.30E-01	1.01	2.30E-01	1.01	-	-	2.28E-05	1.00E-04
3	15.50	67.90	14.70	64.40	4.47	19.60	2.90E-02	1.30E-01	2.30E-01	1.01	2.30E-01	1.01	2.30E-01	1.01	-	-	2.28E-05	1.00E-04
4	15.50	67.90	14.70	64.40	4.47	19.60	2.90E-02	1.30E-01	2.30E-01	1.01	2.30E-01	1.01	2.30E-01	1.01	-	-	2.28E-05	1.00E-04
5	15.50	67.90	14.70	64.40	4.47	19.60	2.90E-02	1.30E-01	2.30E-01	1.01	2.30E-01	1.01	2.30E-01	1.01	-	-	2.28E-05	1.00E-04
6	15.50	67.90	14.70	64.40	4.47	19.60	2.90E-02	1.30E-01	2.30E-01	1.01	2.30E-01	1.01	2.30E-01	1.01	-	-	2.28E-05	1.00E-04
7	4.32	18.90	6.47	28.40	2.50E-01	1.10	1.10E-02	4.60E-02	8.47E-02	3.71E-01	8.47E-02	3.71E-01	8.47E-02	3.71E-01	-	-	-	-
8	4.32	18.90	6.47	28.40	2.50E-01	1.10	1.10E-02	4.60E-02	8.47E-02	3.71E-01	8.47E-02	3.71E-01	8.47E-02	3.71E-01	-	-	-	-
19	15.50	67.90	14.70	64.40	4.47	19.60	2.30E-02	1.00E-01	1.81E-01	7.92E-01	1.81E-01	7.92E-01	1.81E-01	7.92E-01	-	-	2.28E-05	1.00E-04
20	15.50	67.90	14.70	64.40	4.47	19.60	2.30E-02	1.00E-01	1.81E-01	7.92E-01	1.81E-01	7.92E-01	1.81E-01	7.92E-01	-	-	2.28E-05	1.00E-04
25	1.09	4.76	2.30E-01	1.00	4.20E-02	1.80E-01	6.00E-03	2.60E-02	6.88E-02	3.01E-01	6.88E-02	3.01E-01	6.88E-02	3.01E-01	-	-	4.53E-06	1.98E-05
27	1.11	4.88	2.30E-01	1.00	4.30E-02	1.90E-01	6.00E-03	2.70E-02	7.05E-02	3.09E-01	7.05E-02	3.09E-01	7.05E-02	3.09E-01	-	-	4.64E-06	2.03E-05
28	4.66	7.95	33.69	57.44	9.07	15.47	5.26E-02	8.97E-02	-	-	-	-	-	-	-	-	4.38E-05	7.48E-05
35a	-	-	-	-	2.00	8.80	-	-	-	-	-	-	-	-	-	-	-	-
35b	1.94E-01	8.52E-01	1.63E-01	7.15E-01	1.07E-02	4.68E-02	1.17E-03	5.11E-03	1.48E-02	6.47E-02	1.48E-02	6.47E-02	1.48E-02	6.47E-02	-	-	9.72E-07	4.26E-06
36	1.40E-01	6.15E-01	2.80E-01	1.23	5.50E-04	2.41E-03	4.66E-04	2.04E-03	-	-	-	-	-	-	-	-	3.89E-07	1.70E-06
38	-	-	-	-	-	4.42	-	-	-	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	1.21E-01	5.30E-01	7.62E-02	3.34E-01	-	-	-	-	-	-
41	-	-	-	-	-	-	-	-	8.41E-02	3.68E-01	5.55E-02	2.43E-01	-	-	-	-	-	-
75	-	-	-	-	5.80	25.60	-	-	-	-	-	-	-	-	-	-	-	-
76	3.00E-01	7.49E-02	4.91E-01	1.23E-01	3.91E-03	9.77E-04	7.76E-05	1.94E-05	2.56E-03	6.41E-04	2.56E-03	6.41E-04	2.56E-03	6.41E-04	-	-	-	-
77a	-	-	-	-	1.00	4.40	-	-	-	-	-	-	-	-	-	-	-	-
77b	4.29E-02	1.88E-01	4.46E-02	1.95E-01	6.46E-03	2.83E-02	8.33E-04	3.65E-03	1.25E-02	5.49E-02	1.25E-02	5.49E-02	1.25E-02	5.49E-02	-	-	8.24E-07	3.61E-06
SSM	-	-	-	-	-	28.60	-	-	-	-	-	-	-	-	-	-	-	-
F1	-	-	-	-	3.51	15.37	-	-	-	-	-	-	-	-	-	-	-	-
M1	-	-	-	-	-	10.00	-	-	-	-	-	-	-	-	-	-	-	-
T3	-	-	-	-	1.37	6.00	-	-	-	-	-	-	-	-	-	-	-	-
T31	-	-	-	-	3.20E-01	1.40	-	-	-	-	-	-	-	-	-	-	-	-
T109	-	-	-	-	1.30	5.70	-	-	-	-	-	-	-	-	-	-	-	-
T6528	-	-	-	-	-	w/T3, T31 & T109	-	-	-	-	-	-	-	-	-	-	-	-
T6529	-	-	-	-	-	164.00	-	-	-	-	-	-	-	-	-	-	-	-
SEP-1	-	-	-	-	-	w/T6528	-	-	-	-	-	-	-	-	-	-	-	-

**Table 2-E: Requested Allowable Emissions**

Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "--" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E<sup>-4</sup>).

Unit No.	NOx		CO		VOC		SOx		PM <sup>1</sup>		PM10 <sup>1</sup>		PM2.5 <sup>1</sup>		H <sub>2</sub> S		Lead		
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	
<b>Totals</b>	140.18	600.32	165.67	633.70	60.74	449.20	3.09E-01	1.23	2.28	9.99	2.21	9.67	2.08	9.10	-	-	2.38E-04	9.24E-04	

<sup>1</sup> **Condensable Particulate Matter:** Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but it is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).

**Table 2-F: Additional Emissions during Startup, Shutdown, and Routine Maintenance (SSM)**

□ This table is intentionally left blank since all emissions at this facility due to routine or predictable startup, shutdown, or scheduled maintenance are no higher than those listed in Table 2-E and a malfunction emission limit is not already permitted or requested. If you are required to report GHG emissions as described in Section 6a, include any GHG emissions during Startup, Shutdown, and/or Scheduled Maintenance (SSM) in Table 2-P. Provide an explanations of SSM emissions in Section 6 and 6a.

All applications for facilities that have emissions during routine or predictable startup, shutdown or scheduled maintenance (SSM)<sup>1</sup>, including NOI applications, must include in this table the Maximum Emissions during routine or predictable startup, shutdown and scheduled maintenance (20.2.7 NMAC, 20.2.72.203.A.3 NMAC, 20.2.73.200.D.2 NMAC). In Section 6 and 6a, provide emissions calculations for all SSM emissions reported in this table. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications ([https://www.env.nm.gov/aqb/permit/aqb\\_pol.html](https://www.env.nm.gov/aqb/permit/aqb_pol.html)) for more detailed instructions. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E-4).

Unit No.	NOx		CO		VOC		SOx		PM <sup>2</sup>		PM10 <sup>2</sup>		PM2.5 <sup>2</sup>		H <sub>2</sub> S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
77a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
77b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SSM	-	-	-	-	-	28.6	-	-	-	-	-	-	-	-	-	-	-	-
F1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M1	-	-	-	-	-	10.00	-	-	-	-	-	-	-	-	-	-	-	-
T3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T109	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T6528	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**Table 2-F: Additional Emissions during Startup, Shutdown, and Routine Maintenance (SSM)**

□ This table is intentionally left blank since all emissions at this facility due to routine or predictable startup, shutdown, or scheduled maintenance are no higher than those listed in Table 2-E and a malfunction emission limit is not already permitted or requested. If you are required to report GHG emissions as described in Section 6a, include any GHG emissions during Startup, Shutdown, and/or Scheduled Maintenance (SSM) in Table 2-P. Provide an explanation of SSM emissions in Section 6 and 6a.

All applications for facilities that have emissions during routine or predictable startup, shutdown or scheduled maintenance (SSM)<sup>1</sup>, including NOI applications, must include in this table the Maximum Emissions during routine or predictable startup, shutdown and scheduled maintenance (20.2.7 NMAC, 20.2.72.203.A.3 NMAC, 20.2.73.200.D.2 NMAC). In Section 6 and 6a, provide emissions calculations for all SSM emissions reported in this table. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications ([https://www.env.nm.gov/aqb/permit/aqb\\_pol.html](https://www.env.nm.gov/aqb/permit/aqb_pol.html)) for more detailed instructions. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E-4).

Unit No.	NOx		CO		VOC		SOx		PM <sup>2</sup>		PM10 <sup>2</sup>		PM2.5 <sup>2</sup>		H <sub>2</sub> S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
T6529	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEP-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Totals</b>	-	-	-	-	-	38.60	-	-	-	-	-	-	-	-	-	-	-	-

<sup>1</sup> For instance, if the short term steady-state Table 2-E emissions are 5 lb/hr and the SSM rate is 12 lb/hr, enter 7 lb/hr in this table. If the annual steady-state Table 2-E emissions are 21.9 TPY, and the number of scheduled SSM events result in annual emissions of 31.9 TPY, enter 10.0 TPY in the table below.

<sup>2</sup> **Condensable Particulate Matter:** Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but it is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).





**Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs**

In the table below, report the Potential to Emit for each HAP from each regulated emission unit listed in Table 2-A, only if the entire facility emits the HAP at a rate greater than or equal to one (1) ton per year For each such emission unit, HAPs shall be reported to the nearest 0.1 tpy. Each facility-wide Individual HAP total and the facility-wide Total HAPs shall be the sum of all HAP sources calculated to the nearest 0.1 ton per year. Per 20.2.72.403.A.1 NMAC, facilities not exempt [see 20.2.72.402.C NMAC] from TAP permitting shall report each TAP that has an uncontrolled emission rate in excess of its pounds per hour screening level specified in 20.2.72.502 NMAC. TAPs shall be reported using one more significant figure than the number of significant figures shown in the pound per hour threshold corresponding to the substance. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAAA and the TAP nomenclature as it listed in 20.2.72.502 NMAC. Include tank-flashing emissions estimates of HAPs in this table. For each HAP or TAP listed, fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected or the pollutant is emitted in a quantity less than the threshold amounts described above.

Stack No.	Unit No.(s)	Total HAPs		Acetaldehyde <input checked="" type="checkbox"/> HAP or <input type="checkbox"/> TAP		Benzene <input checked="" type="checkbox"/> HAP or <input type="checkbox"/> TAP		Ethylbenzene <input checked="" type="checkbox"/> HAP or <input type="checkbox"/> TAP		Formaldehyde <input checked="" type="checkbox"/> HAP or <input type="checkbox"/> TAP		n-Hexane <input checked="" type="checkbox"/> HAP or <input type="checkbox"/> TAP		Toluene <input checked="" type="checkbox"/> HAP or <input type="checkbox"/> TAP		Xylenes <input checked="" type="checkbox"/> HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP			
		lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
		1	1	0.3	1.5	0.1	0.6	-	-	-	-	0.1	0.6	-	0.1	-	-	-	-		
2	2	0.3	1.5	0.1	0.6	-	-	-	-	0.1	0.6	-	0.1	-	-	-	-				
3	3	0.3	1.5	0.1	0.6	-	-	-	-	0.1	0.6	-	0.1	-	-	-	-				
4	4	0.3	1.5	0.1	0.6	-	-	-	-	0.1	0.6	-	0.1	-	-	-	-				
5	5	0.3	1.5	0.1	0.6	-	-	-	-	0.1	0.6	-	0.1	-	-	-	-				
6	6	0.3	1.5	0.1	0.6	-	-	-	-	0.1	0.6	-	0.1	-	-	-	-				
7	7	0.1	0.5	-	0.2	-	-	-	-	-	0.2	-	-	-	-	-	-				
8	8	0.1	0.5	-	0.2	-	-	-	-	-	0.2	-	-	-	-	-	-				
19	19	0.3	1.2	0.1	0.5	-	-	-	-	0.1	0.5	-	-	-	-	-	-				
20	20	0.3	1.2	0.1	0.5	-	-	-	-	0.1	0.5	-	-	-	-	-	-				
25	25	0.1	0.4	-	-	-	-	-	0.1	-	-	-	0.1	-	-	-	-				
27	27	0.1	0.4	-	-	-	-	-	0.1	-	-	-	0.1	-	-	-	-				
28	28	0.7	3.1	-	-	0.1	0.3	-	-	-	0.1	0.4	2.0	0.1	0.4	-	0.1				
35a	35a	0.1	0.3	-	-	-	-	-	-	-	-	-	0.1	-	0.2	-	-				
35b	35b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
36	36	0.1	0.3	-	-	-	-	-	-	-	-	-	0.1	-	0.1	-	-				
38	38	-	0.3	-	-	-	-	-	-	-	-	-	0.2	-	-	-	-				
40	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
41	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
75	75	3.3	14.4	-	-	1.3	5.8	0.3	1.2	-	-	-	-	1.3	5.9	0.3	1.5				
76	76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
77a	77a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
77b	77b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
SSM	SSM	-	1.2	-	-	-	0.1	-	-	-	-	-	0.5	-	0.5	-	0.2				
F1	F1	0.2	0.7	-	-	-	-	-	-	-	-	0.1	0.3	0.1	0.3	-	0.1				
M1	M1	-	0.4	-	-	-	-	-	-	-	-	-	0.2	-	0.2	-	0.1				
T3	T3	-	0.1	-	-	-	-	-	-	-	-	-	0.1	-	-	-	-				
T31	T31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				

**Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs**

In the table below, report the Potential to Emit for each HAP from each regulated emission unit listed in Table 2-A, only if the entire facility emits the HAP at a rate greater than or equal to one (1) ton per year For each such emission unit, HAPs shall be reported to the nearest 0.1 tpy. Each facility-wide Individual HAP total and the facility-wide Total HAPs shall be the sum of all HAP sources calculated to the nearest 0.1 ton per year. Per 20.2.72.403.A.1 NMAC, facilities not exempt [see 20.2.72.402.C NMAC] from TAP permitting shall report each TAP that has an uncontrolled emission rate in excess of its pounds per hour screening level specified in 20.2.72.502 NMAC. TAPs shall be reported using one more significant figure than the number of significant figures shown in the pound per hour threshold corresponding to the substance. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAAA and the TAP nomenclature as it listed in 20.2.72.502 NMAC. Include tank-flashing emissions estimates of HAPs in this table. For each HAP or TAP listed, fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected or the pollutant is emitted in a quantity less than the threshold amounts described above.

Stack No.	Unit No.(s)	Total HAPs		Acetaldehyde <input checked="" type="checkbox"/> HAP or <input type="checkbox"/> TAP		Benzene <input checked="" type="checkbox"/> HAP or <input type="checkbox"/> TAP		Ethylbenzene <input checked="" type="checkbox"/> HAP or <input type="checkbox"/> TAP		Formaldehyde <input checked="" type="checkbox"/> HAP or <input type="checkbox"/> TAP		n-Hexane <input checked="" type="checkbox"/> HAP or <input type="checkbox"/> TAP		Toluene <input checked="" type="checkbox"/> HAP or <input type="checkbox"/> TAP		Xylenes <input checked="" type="checkbox"/> HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP	
		lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
T109	T109	-	0.1	-	-	-	-	-	-	-	-	-	0.1	-	-	-	-		
T6528	T6528	-	wT3, T31 & T109	-	-	-	wT3, T31 & T109	-	-	-	-	-	wT3, T31 & T109	-	wT3, T31 & T109	-	wT3, T31 & T109		
T6529	T6529	-	1.0	-	-	-	0.1	-	-	-	-	-	0.6	-	0.2	-	0.1		
SEP-1	SEP-1	-	w/T6528	-	-	-	w/T6528	-	-	-	-	-	w/T6528	-	w/T6528	-	w/T6528		
<b>Totals</b>		7.3	35.0	1.2	5.1	1.5	6.7	0.3	1.4	1.2	5.1	0.7	4.6	1.6	7.9	0.5	2.5		



**Table 2-K: Liquid Data for Tanks Listed in Table 2-L**

For each tank, list the liquid(s) to be stored in each tank. If it is expected that a tank may store a variety of hydrocarbon liquids, enter "mixed hydrocarbons" in the Composition column for that tank and enter the corresponding data of the most volatile liquid to be stored in the tank. If tank is to be used for storage of different materials, list all the materials in the "All Calculations" attachment, run the newest version of TANKS on each, and use the material with the highest emission rate to determine maximum uncontrolled and requested allowable emissions rate. The permit will specify the most volatile category of liquids that may be stored in each tank. Include appropriate tank-flashing modeling input data. Use additional sheets if necessary. Unit and stack numbering must correspond throughout the application package.

Tank No.	SCC Code	Material Name	Composition	Liquid Density (lb/gal)	Vapor Molecular Weight (lb/lb*mol)	Average Storage Conditions		Max Storage Conditions	
						Temperature (°F)	True Vapor Pressure (psia)	Temperature (°F)	True Vapor Pressure (psia)
T2	31000299	Lean Oil	Lean Oil	Exempt source					
T3	31000299	Flare Separator Liquids	Flare Separator Liquids	5.75	66.54	58.54	1.97	65.66	2.28
T5	31000299	Propane	Propane	Exempt source					
T13	31000299	Y-Grade	Y-Grade	Exempt source					
T14	31000299	Y-Grade	Y-Grade	Exempt source					
T15	31000299	Propane	Propane	Exempt source					
T16	31000299	Out-of-Service	Out-of-Service	For Information Only					
T17	31000299	Out-of-Service	Out-of-Service	For Information Only					
T18	31000299	Out-of-Service	Out-of-Service	For Information Only					
T21	31000299	Methanol	Methanol	Exempt source					
T22	31000299	Methanol	Methanol	Exempt source					
T30	31000299	Separator Liquids	Separator Liquids	Exempt source					
T31	31000299	Flare Separator Liquids	Flare Separator Liquids	5.75	66.95	67.36	2.36	80.79	3.06
T32	31000299	Oil/Water Separator Liquid	Waste Water	Exempt source					
T40	31000299	Used Oil	Used Oil	Exempt source					
T41	31000299	Gasoline	Gasoline	Exempt source					
T42	31000299	Solvent	Solvent	Exempt source					
T50a	31000299	Diesel	Diesel	Exempt source					
T50b	31000299	Diesel	Diesel	Exempt source					
T51	31000299	Lubrication Oil	Lubrication Oil	Exempt source					
T52a	31000299	Glycol	Glycol	Exempt source					
T52b	31000299	Condensate	Glycol	Exempt source					
T53a	31000299	Glycol Storage	Glycol	Exempt source					
T53b	31000299	Glycol Surge	Glycol	Exempt source					
T54	31000299	Ambitrol	Ambitrol	Exempt source					
T56	31000299	Ambitrol	Ambitrol	Exempt source					
T57	31000299	Lubrication Oil	Lubrication Oil	Exempt source					
T58a	31000299	Lean Oil	Lean Oil	Exempt source					
T58b	31000299	Used Oil	Used Oil	Exempt source					

**Table 2-K: Liquid Data for Tanks Listed in Table 2-L**

For each tank, list the liquid(s) to be stored in each tank. If it is expected that a tank may store a variety of hydrocarbon liquids, enter "mixed hydrocarbons" in the Composition column for that tank and enter the corresponding data of the most volatile liquid to be stored in the tank. If tank is to be used for storage of different materials, list all the materials in the "All Calculations" attachment, run the newest version of TANKS on each, and use the material with the highest emission rate to determine maximum uncontrolled and requested allowable emissions rate. The permit will specify the most volatile category of liquids that may be stored in each tank. Include appropriate tank-flashing modeling input data. Use additional sheets if necessary. Unit and stack numbering must correspond throughout the application package.

Tank No.	SCC Code	Material Name	Composition	Liquid Density (lb/gal)	Vapor Molecular Weight (lb/lb*mol)	Average Storage Conditions		Max Storage Conditions	
						Temperature (°F)	True Vapor Pressure (psia)	Temperature (°F)	True Vapor Pressure (psia)
T59	31000299	Methanol	Methanol	Exempt source					
T60	31000299	Diesel	Diesel	Exempt source					
T61	31000299	Out-of-Service	Out-of-Service	For Information Only					
T62a	31000299	Amine Mix	50% Amine & 50% H2O	Exempt source					
T62b	31000299	Amine Mix	50% Amine & 50% H2O	Exempt source					
T62c	31000299	Water	Water	Not an emissions source					
T62d	31000299	Defoamer	Defoamer	Exempt source					
T63	31000299	Amine Slop	Amine	Exempt source					
T64	31000299	Lubrication Oil	Lubrication Oil	Exempt source					
T65	31000299	Lubrication Oil	Lubrication Oil	Exempt source					
T81	31000299	Methanol	Methanol	Exempt source					
T102	31000299	Filter Draining	Condensate	Exempt source					
T104	31000299	Used Oil	Used Oil	Exempt source					
T105	31000299	Water	Water	Not an emissions source					
T106	31000299	Water	Water	Not an emissions source					
T107	31000299	Water	Water	Not an emissions source					
T108	31000299	Ambitrol	Ambitrol	Exempt source					
T109	31000299	Flare Separator Liquids	Flare Separator Liquids	5.75	67.64	67.36	2.36	80.79	3.06
T6528	31000299	Flare Separator Liquids	Flare Separator Liquids	w/T3, T31 & T109					
T6529	31000299	Condensate	Condensate	5.94	66.13	67.36	2.60	80.79	3.26

**Table 2-L: Tank Data**

Include appropriate tank-flashing modeling input data. Use an addendum to this table for unlisted data categories. Unit and stack numbering must correspond throughout the application package. Use additional sheets if necessary. See reference Table 2-L2. Note: 1.00 bbl = 10.159 M3 = 42.0 gal

Tank No.	Date Installed	Materials Stored	Seal Type (refer to Table 2-LR below)	Roof Type (refer to Table 2-LR below)	Capacity		Diameter (M)	Vapor Space (M)	Color (from Table VI-C)		Paint Condition (from Table VI-C)	Annual Throughput (gal/yr)	Turn-overs (per year)
					(bbl)	(M <sup>3</sup> )			Roof	Shell			
T2		Lean Oil		P	474		Exempt source						
T3		Flare Separator Liquids		P	474		2.44	1.22	WH	WH	Good	1,179,360	59.27
T5		Propane		P	476		Exempt source						
T13		Y-Grade		P	1,905		Exempt source						
T14		Y-Grade		P	1,905		Exempt source						
T15		Propane		P	1,905		Exempt source						
T16		Out-of-Service		P	952		For Information Only						
T17		Out-of-Service		P	952		For Information Only						
T18		Out-of-Service		P	952		For Information Only						
T21		Methanol		P	2,143		Exempt source						
T22		Methanol		P	2,143		Exempt source						
T30		Separator Liquids		FX	210		Exempt source						
T31		Flare Separator Liquids		FX	100		2.44	1.85	MG	MG	Good	117,936	31.37
T32		Oil/Water Separator Liquid		FX	250		Exempt source						
T40		Used Oil		FX	48		Exempt source						
T41		Gasoline		FX	7		Exempt source						
T42		Solvent		FX	7		Exempt source						
T50a		Diesel		FX	24		Exempt source						
T50b		Diesel		FX	5		Exempt source						
T51		Lubrication Oil		FX	71		Exempt source						
T52a		Glycol		FX	24		Exempt source						
T52b		Condensate		FX	47		Exempt source						
T53a		Glycol Storage		FX	210		Exempt source						
T53b		Glycol Surge		FX	25		Exempt source						
T54		Ambitrol		FX	79		Exempt source						
T56		Ambitrol		FX	70		Exempt source						
T57		Lubrication Oil		FX	105		Exempt source						
T58a		Lean Oil		FX	252		Exempt source						
T58b		Used Oil		FX	70		Exempt source						
T59		Methanol		FX	100		Exempt source						
T60		Diesel		FX	24		Exempt source						
T61		Out-of-Service		FX	17		For Information Only						

**Table 2-L: Tank Data**

Include appropriate tank-flashing modeling input data. Use an addendum to this table for unlisted data categories. Unit and stack numbering must correspond throughout the application package. Use additional sheets if necessary. See reference Table 2-L2. Note: 1.00 bbl = 10.159 M<sup>3</sup> = 42.0 gal

Tank No.	Date Installed	Materials Stored	Seal Type (refer to Table 2-LR below)	Roof Type (refer to Table 2-LR below)	Capacity		Diameter (M)	Vapor Space (M)	Color (from Table VI-C)		Paint Condition (from Table VI-C)	Annual Throughput (gal/yr)	Turn-overs (per year)
					(bbl)	(M <sup>3</sup> )			Roof	Shell			
T62a		Amine Mix		FX	256		Exempt source						
T62b		Amine Mix		FX	100		Exempt source						
T62c		Water		FX	500		Not an emissions source						
T62d		Defoamer		FX	7		Exempt source						
T63		Amine Slop		FX	190		Exempt source						
T64		Lubrication Oil		FX	70		Exempt source						
T65		Lubrication Oil		FX	70		Exempt source						
T81		Methanol		FX	2		Exempt source						
T102		Filter Draining		FX	48		Exempt source						
T104		Used Oil		FX	4		Exempt source						
T105		Water		FX	3,000		Not an emissions source						
T106		Water		FX	5,452		Not an emissions source						
T107		Water		FX	5,452		Not an emissions source						
T108		Ambitrol		FX	25		Exempt source						
T109		Flare Separator Liquids		FX	500		4.05	3.24	MG	MG	Good	1,179,360	59.73
T6528		Flare Separator Liquids		FX	500		w/T3, T31 & T109						
T6529		Condensate		FX	500		4.72	2.76	MG	MG	Good	559,484	28.32

**Table 2-P: Greenhouse Gas Emissions**

Applications submitted under 20.2.70, 20.2.72, & 20.2.74 NMAC are required to complete this Table. Power plants, Title V major sources, and PSD major sources must report and calculate all GHG emissions for each unit. Applicants must report potential emission rates in short tons per year (see Section 6.a for assistance). Include GHG emissions during Startup, Shutdown, and Scheduled Maintenance in this table. For minor source facilities that are not power plants, are not Title V, or are not PSD, there are three options for reporting GHGs 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHG as a second separate unit; OR 3) check the following box  By checking this box, the applicant acknowledges the total CO<sub>2e</sub> emissions are less than 75,000 tons per year.

		CO <sub>2</sub> ton/yr	N <sub>2</sub> O ton/yr	CH <sub>4</sub> ton/yr	SF <sub>6</sub> ton/yr	PFC/HFC ton/yr <sup>2</sup>									Total GHG Mass Basis ton/yr <sup>4</sup>	Total CO <sub>2e</sub> ton/yr <sup>5</sup>
Unit No.	GWPs <sup>1</sup>	1	298	25	22,800	footnote 3										
1	mass GHG	20,508.26	3.87E-02	3.87E-01											20,508.68	-
	CO <sub>2e</sub>	20,508.26	11.52	9.66											-	20,529.44
2	mass GHG	20,508.26	3.87E-02	3.87E-01											20,508.68	-
	CO <sub>2e</sub>	20,508.26	11.52	9.66											-	20,529.44
3	mass GHG	20,508.26	3.87E-02	3.87E-01											20,508.68	-
	CO <sub>2e</sub>	20,508.26	11.52	9.66											-	20,529.44
4	mass GHG	20,508.26	3.87E-02	3.87E-01											20,508.68	-
	CO <sub>2e</sub>	20,508.26	11.52	9.66											-	20,529.44
5	mass GHG	20,508.26	3.87E-02	3.87E-01											20,508.68	-
	CO <sub>2e</sub>	20,508.26	11.52	9.66											-	20,529.44
6	mass GHG	20,508.26	3.87E-02	3.87E-01											2.05E+04	-
	CO <sub>2e</sub>	20,508.26	11.52	9.66											-	20,529.44
7	mass GHG	7,555.67	1.42E-02	1.42E-01											7,555.83	-
	CO <sub>2e</sub>	7,555.67	4.24	3.56											-	7,563.48
8	mass GHG	7,555.67	1.42E-02	1.42E-01											7,555.83	-
	CO <sub>2e</sub>	7,555.67	4.24	3.56											-	7,563.48
19	mass GHG	16,133.92	3.04E-02	3.04E-01											16,134.25	-
	CO <sub>2e</sub>	16,133.92	9.06	7.60											-	16,150.58
20	mass GHG	16,133.92	3.04E-02	3.04E-01											16,134.25	-
	CO <sub>2e</sub>	16,133.92	9.06	7.60											-	16,150.58
25	mass GHG	4,629.98	8.73E-03	8.73E-02											4,630.08	-
	CO <sub>2e</sub>	4,629.98	2.60	2.18											-	4,634.76
27	mass GHG	4,743.60	8.94E-03	8.94E-02											4,743.70	-
	CO <sub>2e</sub>	4,743.60	2.66	2.24											-	4,748.50
28	mass GHG	20,357.91	3.61E-02	108.01											20,465.96	-
	CO <sub>2e</sub>	20,357.91	10.75	2,700.30											-	23,068.96



**Table 2-P: Greenhouse Gas Emissions**

Applications submitted under 20.2.70, 20.2.72, & 20.2.74 NMAC are required to complete this Table. Power plants, Title V major sources, and PSD major sources must report and calculate all GHG emissions for each unit. Applicants must report potential emission rates in short tons per year (see Section 6.a for assistance). Include GHG emissions during Startup, Shutdown, and Scheduled Maintenance in this table. For minor source facilities that are not power plants, are not Title V, or are not PSD, there are three options for reporting GHGs 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHG as a second separate unit; OR 3) check the following box  By checking this box, the applicant acknowledges the total CO<sub>2e</sub> emissions are less than 75,000 tons per year.

		CO <sub>2</sub> ton/yr	N <sub>2</sub> O ton/yr	CH <sub>4</sub> ton/yr	SF <sub>6</sub> ton/yr	PFC/HFC ton/yr <sup>2</sup>									Total GHG Mass Basis ton/yr <sup>4</sup>	Total CO <sub>2e</sub> ton/yr <sup>5</sup>
<b>Unit No.</b>	<b>GWPs<sup>1</sup></b>	<b>1</b>	<b>298</b>	<b>25</b>	<b>22,800</b>	<b>footnote 3</b>										
35a	mass GHG	417.37	--	3.39											420.76	-
	CO <sub>2e</sub>	417.37	--	84.67											-	502.04
35b	mass GHG	994.17	1.87E-03	1.87E-02											994.19	-
	CO <sub>2e</sub>	994.17	5.58E-01	4.68E-01											-	995.19
36	mass GHG	548.45	9.25E-04	--											548.45	-
	CO <sub>2e</sub>	548.45	2.76E-01	--											-	548.73
38	mass GHG	--	--	--											0.00	-
	CO <sub>2e</sub>	--	--	--											-	0.00
40	mass GHG	--	--	--											0.00	-
	CO <sub>2e</sub>	--	--	--											-	0.00
41	mass GHG	--	--	--											0.00	-
	CO <sub>2e</sub>	--	--	--											-	0.00
75	mass GHG	17,991.65	--	37.15											18,028.80	-
	CO <sub>2e</sub>	17,991.65	--	928.63											-	18,920.28
76	mass GHG	4.28	8.07E-06	8.07E-05											4.28	-
	CO <sub>2e</sub>	4.28	2.40E-03	2.02E-03											-	4.28
77a	mass GHG	51.33	--	4.41E-01											51.77	-
	CO <sub>2e</sub>	51.33	--	11.02											-	62.35
77b	mass GHG	842.60	1.59E-03	1.59E-02											842.62	-
	CO <sub>2e</sub>	842.60	4.73E-01	3.97E-01											-	843.47
SSM	mass GHG	8.35	--	142.67											151.02	-
	CO <sub>2e</sub>	8.35	--	3,566.67											-	3,575.03
F1	mass GHG	86.18	--	1,473.60	Equipment leaks includes compressor venting, pneumatic devices, and non-routine emissions.									1,559.78	-	
	CO <sub>2e</sub>	86.18	--	36,839.89												-
M1	mass GHG	2.92	--	49.88											52.80	-
	CO <sub>2e</sub>	2.92	--	1,247.03											-	1,249.95
T3	mass GHG	--	--	--											0.00	-
	CO <sub>2e</sub>	--	--	--											-	0.00

### Table 2-P: Greenhouse Gas Emissions

Applications submitted under 20.2.70, 20.2.72, & 20.2.74 NMAC are required to complete this Table. Power plants, Title V major sources, and PSD major sources must report and calculate all GHG emissions for each unit. Applicants must report potential emission rates in short tons per year (see Section 6.a for assistance). Include GHG emissions during Startup, Shutdown, and Scheduled Maintenance in this table. For minor source facilities that are not power plants, are not Title V, or are not PSD, there are three options for reporting GHGs 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHG as a second separate unit; OR 3) check the following box  By checking this box, the applicant acknowledges the total CO<sub>2</sub>e emissions are less than 75,000 tons per year.

		CO <sub>2</sub> ton/yr	N <sub>2</sub> O ton/yr	CH <sub>4</sub> ton/yr	SF <sub>6</sub> ton/yr	PFC/HFC ton/yr <sup>2</sup>									Total GHG Mass Basis ton/yr <sup>4</sup>	Total CO <sub>2</sub> e ton/yr <sup>5</sup>
<b>Unit No.</b>	<b>GWPs<sup>1</sup></b>	<b>1</b>	<b>298</b>	<b>25</b>	<b>22,800</b>	<b>footnote 3</b>										
T31	mass GHG	--	--	--											0.00	-
	CO <sub>2</sub> e	--	--	--											-	0.00
T109	mass GHG	--	--	--											0.00	-
	CO <sub>2</sub> e	--	--	--											-	0.00
T6528	mass GHG	--	--	--											0.00	-
	CO <sub>2</sub> e	--	--	--											-	0.00
T6529	mass GHG	1.38	--	14.83											16.21	-
	CO <sub>2</sub> e	1.38	--	370.68											-	372.06
SEP-1	mass GHG	w/T6528	--	w/T6528											0.00	-
	CO <sub>2</sub> e	w/T6528	--	w/T6528											-	0.00
	mass GHG															
	CO <sub>2</sub> e															
	mass GHG															
	CO <sub>2</sub> e															
<b>Totals</b>	mass GHG	221,108.90	3.79E-01	1,833.38											222,942.66	-
	CO <sub>2</sub> e	221,108.90	113.04	45,834.47											-	267,056.42

<sup>1</sup> GWP (Global Warming Potential): Applicants must use the most current GWPs codified in Table A-1 of 40 CFR part 98. GWPs are subject to change, therefore, applicants need to check 40 CFR 98 to confirm GWP values.

<sup>2</sup> For HFCs or PFCs describe the specific HFC or PFC compound and use a separate column for each individual compound.

<sup>3</sup> For each new compound, enter the appropriate GWP for each HFC or PFC compound from Table A-1 in 40 CFR 98.

<sup>4</sup> Green house gas emissions on a mass basis is the ton per year green house gas emission before adjustment with its GWP.

<sup>5</sup> CO<sub>2</sub>e means Carbon Dioxide Equivalent and is calculated by multiplying the TPY mass emissions of the green house gas by its GWP.

# Section 3

## Application Summary

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The **Application Summary** shall include a brief description of the facility and its process, the type of permit application, the applicable regulation (i.e. 20.2.72.200.A.X, or 20.2.73 NMAC) under which the application is being submitted, and any air quality permit numbers associated with this site. If this facility is to be collocated with another facility, provide details of the other facility including permit number(s). In case of a revision or modification to a facility, provide the lowest level regulatory citation (i.e. 20.2.72.219.B.1.d NMAC) under which the revision or modification is being requested. Also describe the proposed changes from the original permit, how the proposed modification will affect the facility's operations and emissions, de-bottlenecking impacts, and changes to the facility's major/minor status (both PSD & Title V).

The **Process Summary** shall include a brief description of the facility and its processes.

**Startup, Shutdown, and Maintenance (SSM) routine or predictable emissions:** Provide an overview of how SSM emissions are accounted for in this application. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications ([http://www.env.nm.gov/aqb/permit/app\\_form.html](http://www.env.nm.gov/aqb/permit/app_form.html)) for more detailed instructions on SSM emissions.

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### *Application Summary*

The HFC Kutz Canyon Processing Plant currently operates under a construction permit issued by the New Mexico Air Quality Bureau (NMAQB), 0301-M8-R3, dated February 20, 2015 and a Title V operating permit, P097-R2, dated December 19, 2012.

The facility is currently approved by the Title V operating permit to operate the following equipment/sources:

- Six Solar Centaur 40 turbines (Units 1-6);
- Three Solar Saturn 1200 turbines (Units 7, 8 & 29);
- Three Clark HRA-8 reciprocating engines (Units 16-18);
- Two Solar Centaur 3016 turbines (Units 19 & 20);
- One Wheco heater (Unit 22);
- One Alcorn heater (Unit 23);
- One EG dehydrator (Units 24a & 24b);
- One Born glycol heater (Unit 25);
- One Born hot oil heater (Unit 27);
- One plant flare (Unit 28);
- One Pesco fuel gas heater (Unit 30);
- One Cummins 6BTA 208-2100 reciprocating fire pump engine (Unit 32);
- One Ford 428 reciprocating standby fire pump engine (Unit 33);

- One Caterpillar D343 reciprocating standby generator engine (Unit 34)
- One TEG dehydrator (Units 35a & 35b);
- One Zeeco flare (Unit 36);
- One Waukesha L5794LT or L7042GL reciprocating engine (Unit 37a or 37b);
- Truck loading (Unit 38);
- Three cooling towers (Units 39-41);
- One amine contactor (Unit 75);
- One Kohler 8.5RES reciprocating standby generator (Unit 76)
- Six liquid storage tanks (Units T3, T30, T31, T6438, T6528 & T6529);
- Equipment leaks (Unit F1);
- SSM emissions (Unit SSM); and
- Malfunction emissions (Unit M1).

Note that the facility is also equipped with a number of other miscellaneous heaters and liquid storage tanks, for which emissions are insignificant.

**This application was originally submitted to modify the Title V operating permit.** It incorporated an NSR administrative revision dated May 10, 2021 (0301-M11-R2). Under this revision the following modifications were included in the application.

The following equipment was added to the permit:

- One Infab TEG mole sieve regeneration dehydrator (Units 77a & 77b)

The Kutz I portion of the plant was retired:

- Three Clark HRA-8 reciprocating engines (Units 16-18);
- One Wheco heater (Unit 22);
- One Alcorn heater (Unit 23);
- One EG dehydrator (Units 24a & 24b);
- One Solar Saturn 1200 turbine (Unit 29);
- One Waukesha L5794LT or L7042GL reciprocating engine (Unit 37a or 37b);
- One cooling tower (Unit 39); and
- One condensate storage tank (Unit T6438) with its associated ejector vapor recovery unit EVRU and EVRU heater (Unit 74).

The following equipment was removed from the facility (it is located more than 0.25 miles away):

- One Pesco fuel gas heater (Unit 30).

**This application is being revised to both renew and modify the Title V operating permit.** In addition to the changes identified above, the following additional modifications have been added to this application as a part of the revision:

- Under the NSR administrative revision dated May 28, 2021 (0301-M11-R3), Unit 2 was replaced.
- Under the NSR administrative revision dated July 9, 2021 (0301-M11-R4), Unit 5 was replaced.
- Under the NSR administrative revision dated July 23, 2021 (0301-M11-R5), Unit 19 was replaced.
- Under the NSR administrative revision dated November 2, 2021 (0301-M11-R6), Unit T6528 will store flare separator liquids rather than condensate. Please note the following explanation taken from the administrative revision.

This application is being submitted to change the service of Unit T6528 (one of the Kutz-Dakota condensate storage tanks). Harvest is planning to move this tank from its current location to an area near Unit 28 (the facility flare). There it will receive flare separator liquids (along with Units T3, T31 & T109), rather than condensate.

While the permit makes a distinction between condensate and flare separator liquids, the flare separator liquids are essentially flashed condensate. At its current location, Unit T6528 receives un-flashed condensate. Emissions from the tank include flash emissions and working/breathing losses. At its new location, Unit T6528 will receive flashed condensate (flare separator liquids) rather than un-flashed condensate. Thus, new emissions from the tank will include only working/breathing losses.

It is important to note that in previous permit applications the composition of the separator liquids has been the same as that of the flashed condensate.

There is no need to change permitted emissions for any of the tanks. Nor is there a need to alter the conditions in A203. In recent years, the condensate throughputs to Units T6528 and T6529 have been low. Harvest believes the combined throughput limit for those two tanks (13,321 barrels of condensate per year) is still adequate (see A203.A). The throughput limits for the existing flare separator liquid tanks are also adequate.

As a result, no changes to calculated emissions or condensate and flare separator liquid throughputs are included in this revision.

- An administrative revision being submitted to remove Unit 34 from the NSR permit. Consequently, Unit 34 is also being removed from the Title V permit.

The applicable regulation is 20.2.70 New Mexico Administrative Code (NMAC). The lowest level regulatory citation is 20.2.70.300.B(2) NMAC.

There are no modifications in this application to de-bottleneck impacts or change the facility's major/minor status (both prevention of significant deterioration [PSD] & Title V).

### ***Process Description***

The Kutz Canyon Processing Plant is a natural gas processing facility designed to remove ethane and heavier hydrocarbons from natural gas. The Kutz I Plant, which is being retired (and removed from the permit), has been used to remove the heavier hydrocarbons using a refrigerated lean oil absorption process. The Kutz II Plant removes the heavier hydrocarbons using a cryogenic process. A process flow diagram is provided in Section 4.

Note that with the continuing decline in natural gas production in the San Juan Basin, it is no longer economically viable to operate all equipment at the Kutz Canyon Processing Plant. Thus, HFC will discontinue operation of the Kutz I lean oil plant portion of the facility.

***Startup, Shutdown and Maintenance Emissions***

For the reciprocating engines, heaters, dehydrators (still vents and reboilers), flares, truck loading, cooling towers, amine contactor, equipment leaks (valves, connectors, seals, etc.), and storage tanks, it is concluded there are no SSM emissions in excess of those identified for steady-state operation as seen in Section 2, Table 2-E. Discussions justifying this conclusion are provided in Section 6.

SSM emissions from turbines, compressors, and piping associated with the facility were calculated from the quantity of gas vented during each event, the composition of the gas, and the number of events. The number of blowdowns events were estimated based on historical operations. A safety factor was included.



regardless if the applicant takes credit for the reduction in emissions. The applicant can indicate in this section of the application if they chose to not take credit for the reduction in emission rates. For notices of intent submitted under 20.2.73 NMAC, only uncontrolled emission rates can be considered to determine applicability unless the state or federal Acts require the control. This information is necessary to determine if federally enforceable conditions are necessary for the control device, and/or if the control device produces its own regulated pollutants or increases emission rates of other pollutants.

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Note that the hydrogen sulfide (H<sub>2</sub>S) content of the natural gas at the station is non-detect. Therefore, it was assumed there are no H<sub>2</sub>S emissions associated with any of the equipment. Also note that even if H<sub>2</sub>S was present, H<sub>2</sub>S emissions from the combustion of natural gas would be negligible. H<sub>2</sub>S is converted to SO<sub>2</sub> during combustion.

### ***Turbines***

The nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), volatile organic compounds (VOC), and sulfur dioxide (SO<sub>2</sub>) emissions from the turbines (Units 1-8, 19 & 20) were calculated using stack test and manufacturer's data as identified in previous applications. Particulate emissions were calculated using the AP-42 emission factor from Table 3.1-2a. Hazardous air pollutant (HAP) emissions were calculated using GRI-HAPCalc 3.0. Emissions were calculated assuming each turbine operates at full site capacity for 8,760 hours per year.

The turbines at the station startup with no load and a rich fuel mixture. As a result, emissions are minimized. Because the turbines take only minutes to reach operating temperature, emissions during startup are not expected to exceed the steady-state allowable limits. Similarly, emissions during shutdown do not exceed the steady-state allowable limits, because fuel and air flow cease within seconds of shutdown. Emissions due to scheduled maintenance are negligible as the turbines are not in operation during maintenance.

No modifications are being made to the turbines or their operation. Emissions from the turbines are carried forward and not revised.

### ***Turbine, Compressor and Piping SSM***

SSM emissions from the Solar Centaur 40 turbines (Units 1a-6a), Solar Centaur 3016 turbines (Units 7a, 8a, 19a & 20a), compressors, and associated piping are vented to the atmosphere. Note that the compressors associated with Units 7 & 8 are not purged, so there are no SSM emissions from these compressors. Units 19 & 20 are generators, so there are no associated compressors.

SSM emissions from the turbines result from the blowdown of motive gas used to drive turbine components during startups and shutdowns. SSM emissions from the compressors occur when high pressure gas is used to purge air from the compressors and associated piping prior to startups. This gas is then vented to atmosphere. Also, after shutdowns, high pressure gas in the compressors and associated piping is released to atmosphere as a safety precaution.

SSM emissions from blowdown of the turbines, compressors and piping associated with the plant were calculated from the quantity of gas vented during each event, the composition of the gas, and the number of events. The quantity of gas vented during each event was determined by HFC engineering. The composition of the gas was determined from extended gas analyses. For each unit, the annual number of blowdown events were estimated based on historical operations. A safety factor was added because VOC and HAP emissions from each blowdown event are dependent on the composition of the gas in the pipeline and because the number of blowdowns in a year may vary. Experience indicates the composition of the gas is likely to vary. The use of the safety factor is also designed to ensure an adequate emissions limit, which includes emissions from other miscellaneous startup, shutdown and maintenance activities.

Consistent with other facilities, it is requested SSM emissions from the turbines, compressors and associated piping be permitted under a single facility-wide emissions limit.



SSM emissions are carried forward and not revised.

### ***Heaters***

The criteria pollutant emissions from the natural gas-fired heaters (Units 25, 27, 43, 44, 49, 50, 60 & 64-68) were calculated using AP-42 emission factors from Section 1.4. HAP emissions were calculated using GRI-HAPCalc 3.0. Emissions were calculated assuming each heater and reboiler operates at full site capacity for 8,760 hours per year. Note that Units 43, 44, 49, 50, 60 & 64-68 are exempt sources in accordance with 20.2.72.202(B) NMAC and insignificant sources in accordance with Insignificant Activity Citation #'s 1a & 1b. Combined emissions from each heater type for each pollutant are less than 0.5 tons per year.

The heaters and reboilers (uncontrolled) startup with less fuel input than during steady-state operation, so emissions are lower than during steady-state operation. During shutdown, the fuel supply stops quickly, but air flow may not, causing the continued formation of NO<sub>x</sub>. Even so, with no fuel, NO<sub>x</sub> formation should be less than during steady-state operation. Emissions due to scheduled maintenance are negligible as the units are not in operation.

No modifications are being made to the heaters or their operation. Emissions from the heaters are carried forward and not revised.

### ***Dehydrators***

Unit 35a still vent emissions are controlled by the Zeeco flare (Unit 36). Unit 77a still vent emissions are controlled by the plant flare (Unit 28). VOC and HAP emissions from the dehydrators were calculated using GRI-GLYCalc 4.0. The control efficiencies of the flares were estimated to be 95 percent. It is assumed the dehydrators operate at design capacity for 8,760 hours per year. To allow for variations in dehydrator inlet gas compositions, the emissions identified in the Section 2 tables include a safety factor.

During startup, the dehydrator reboilers are brought up to temperature before allowing glycol into the absorbers. This prevents excess VOC and HAP from collecting in the glycol stream and there are no excess startup emissions above those expected during steady-state operation. Also, the dehydrators are not turned on until the flares are in operation. During shutdown, the reboilers are shut down in conjunction with the gas flow and glycol circulation. Again, this prevents excess VOC and HAP from collecting in the glycol stream and there are no excess shutdown emissions above those expected during steady-state operation. Also, the flares are not shut down while dehydrators are in operation. Emissions due to scheduled maintenance are negligible; either the units are not in operation during maintenance or maintenance is limited to tasks for which there are no excess emissions.

No modifications are being made to the dehydrators or their operation. Emissions from the dehydrators are carried forward and not revised.

### ***Dehydrator Reboilers***

Criteria pollutant emissions from Unit 35b were calculated using AP-42 emission factors from Section 1.4. HAP emissions were calculated using GRI-HAPCalc 3.0. Emissions were calculated assuming the reboiler operates at full site capacity for 8,760 hours per year.

The NO<sub>x</sub> and CO emission factors for Unit 77b were identified from an Enertek letter dated August 19, 1994. The VOC and SO<sub>2</sub> emission factors were identified from an InFab letter dated July 22, 1998. The particulate and lead emissions were calculated using AP-42 emission factors from Table 1.4-2. HAP emissions were calculated using GRI-HAPCalc 3.0. All emissions were calculated assuming the reboiler operates 8,760 hours per year.

The reboilers (uncontrolled) startup with less fuel input than during steady-state operation, so emissions are lower than during steady-state operation. During shutdown, the fuel supply stops quickly, but air flow may not, causing the continued formation of NO<sub>x</sub>. Even so, with no fuel, NO<sub>x</sub> formation should be less than during steady-state operation. Emissions due to scheduled maintenance are negligible as the units are not in operation.

No modifications are being made to the reboiler or their operation. Emissions from the reboilers are carried forward and not revised.

### ***Flares***

Emissions from the plant flare (Unit 28) were calculated based on historical pilot gas throughput and actual flare throughput volumes. The NO<sub>x</sub>, and CO emissions from the flare were calculated using Texas Commission on Environmental Quality (TCEQ) emission factors. SO<sub>2</sub> and lead emissions were calculated using the AP-42 emissions factors from Table 1.4-2. VOC emissions were calculated from the gas composition and throughput. HAP emissions were calculated using GRI-HAPCalc 3.0. To allow for variations in inlet gas composition, a safety factor was applied to the historic average flow rates used to calculate emissions.

The NO<sub>x</sub>, and CO emissions from the Zeeco flare (Unit 36) were calculated using TCEQ emission factors. SO<sub>2</sub>, VOC, and lead emissions were calculated using AP-42 emissions factors from Table 1.4-2. The flow rates were identified from manufacturer's data and the GRI-GLYCalc 4.0 output file. The heat contents were calculated from data in the GRI-GLYCalc 4.0 output file. Note that VOC and HAP emissions from the dehydrator are accounted for in the dehydrator emissions calculations, rather than the flare emissions calculations.

There are no excess SSM emissions associated with operation of the flares. The flares do not require warm-up periods. Equipment is not turned on unless the flares are in operation and the flares are not shut down while equipment is in operation. No maintenance is conducted on the flares while they are in operation.

No modifications are being made to the flares or their operation. Emissions from the flares are carried forward and not revised.

### ***Truck Loading***

VOC emissions from truck loading (Unit 38) were calculated using the AP-42 emission factor from Section 5.2 and data provided by HFC. HAP emissions were calculated from the composition of the condensate as determined from the TANKS 4.0 results.

Due to the nature of the source, it is estimated there are no startup or shutdown emissions associated with truck loading. No maintenance is conducted during truck loading operations.

Emissions from truck loading are carried forward and not revised.

### ***Cooling Towers***

TSP emissions from the cooling towers (Units 40 & 41) were calculated using AP-42 emission factors from Section 13.4 and data provided by HFC. The PM<sub>10</sub> emissions factors were calculated from the TSP emission factors using the "Frisbie" paper equation.

Due to the nature of the source, it is estimated there are no startup or shutdown emissions associated with the cooling towers. No maintenance is conducted while the cooling towers are in operation.

No modifications are being made to the cooling tower equipment or operations. Emissions from the cooling towers are carried forward and not revised.

### ***Amine Contactor***

Amine contactor (Unit 75) VOC and HAP emissions were calculated using AMINECalc 1.0. The emissions calculations were based on an amine circulation rate of 350 gpm. To allow for variations in inlet gas composition, the emissions identified in the Section 2 tables include a safety factor.

It is estimated there are no additional SSM emissions.

No modifications are being made to the amine contactor or its operation. Emissions from the amine contactor are carried forward and not revised.

### ***Equipment Leaks***

Fugitive emissions from equipment leaks (F1), valves, flanges, seals, etc., were calculated using emission factors from the 1995 Protocol for Equipment Leak Emission Estimates published by the Environmental Protection Agency (EPA). Note that propane loading rack emissions are included as fugitive emissions.

Due to the nature of the source, it is estimated that SSM emissions from valves, connectors, seals, etc. are accounted for in the calculations.

Emissions from equipment leaks are carried forward and not revised.

### ***Malfunctions***

Malfunction (Unit M1) emissions were set at 10.0 tons of VOC per year to account for emissions that may occur during upsets and malfunctions (including, but not limited to, unscheduled blowdowns and relief valve release). Based on the gas release rate associated with the set emission rate, HAP emissions were determined from the gas composition. Note that these malfunction emissions include the venting of gas only, not combustion emissions.

Malfunction emissions are carried forward and not revised.

### ***Storage Tanks***

Emissions from the condensate storage tank (Unit T6529) were calculated using TANKS 4.0.9d for working-breathing losses and Promax 3.2 for flash emissions. Emissions were calculated using the condensate (post-flash) throughput of 13,321 barrels per year. The ProMax model run includes flash gas emissions from the slug receiver inlet separator, as have the previous tank flash model runs.

Where necessary, the working/breathing losses for the remaining tanks were calculated using TANKS 4.0.d.9. The following assumptions were made:

- Residual oil #6 was used to estimate lean, oil/water, used oil and lubrication oil emissions. As the vapor pressure of residual oil is less than 0.2 pounds per square inch absolute (psia), the tanks containing lean oil, oil/water, used oil, and lubrication oil were assumed to be exempt and insignificant;
- The flashed condensate composition as identified from the ProMax output files was used to estimate flare separator liquids emissions;
- As propane and y-grade are stored in pressure vessels, there are no VOC or HAP emissions from these units;
- As Units T21 & T22 are pressure vessels, there are no VOC emissions from the methane stored in these tanks;
- Gasoline (RVP 13) was used to estimate gasoline tank emissions;
- Distillate fuel oil #2 was used to estimate diesel fuel emissions. As the vapor pressure of distillate fuel oil #2 is less than 0.2 pounds per square inch absolute (psia), the tanks containing diesel fuel were assumed to be exempt and insignificant.
- Jet kerosene was used to estimate petroleum solvent emissions. As the vapor pressure of jet kerosene is less than 0.2 psia, the tank containing petroleum solvent was assumed to be exempt and insignificant;

- As the vapor pressures of EG and TEG are less than 0.2 psia, the tanks containing EG and TEG are exempt and insignificant;
- As the vapor pressures of ethylene glycol and propylene glycol are less than 0.2 psia, the tanks containing Ambitol are exempt and insignificant. Note that Ambitol is an inhibited ethylene or propylene glycol coolant containing ethylene or propylene glycol, water and less than 5% dipotassium hydrogen phosphate;
- As the vapor pressure of methyldiethanolamine (MDEA) is less than 0.2 psia, the tanks containing amine, amine/water, or defoamer are exempt and insignificant; and
- The natural gasoline liquid composition identified in HAPCalc 3.0 was used to estimate hydrocarbon emissions from the tank containing dehydrator separator liquids (the tank is estimated to contain 99 percent water and one percent hydrocarbons).

The VOC emission rate from the gasoline storage tank (Unit T41) is 647.56 pounds per year. As such, it is an exempt and insignificant source.

The combined VOC emission rate from the methanol storage tanks (Units T59 & T81) are 209.9 pounds per year. As such, they are exempt and insignificant sources.

Due to the nature of operations, startup and shutdown emissions (working/breathing losses) from the storage tanks are assumed to be accounted for in the TANKS 4.0.9d program used to calculate emissions. Due to the nature of the source, it is assumed there are no excess startup or shutdown emissions associated with flashing of the condensate. Emissions due to maintenance are negligible as the units are not in operation.

No changes are being made to these tanks or their operation. Emissions from the tanks are carried forward and not revised.

### Green House Gas Emissions Data and Calculations

Sources	Facility Total Emissions				
	CO2, tpy	CH4, tpy	N2O, tpy	GHG, tpy	CO2e, tpy
Engine & Turbine Exhaust Emissions (Total #2)	170,433.00	3.21	3.21E-01	170,436.53	170609.02
SSM Emissions	8.35	142.67	--	151.02	3575.03
Centrifugal Compressor Venting Emissions	67.75	1,158.85	--	1,226.61	29039.09
Heater & Boiler Exhaust Emissions	9,373.58	1.77E-01	1.77E-02	9,373.77	9383.26
Dehydrator Emissions	468.70	3.83	--	472.53	564.38
Reboiler Exhaust Emissions	1,836.77	3.46E-02	3.46E-03	1,836.81	1838.66
Acid Gas Removal Emissions	17,991.65	37.15	--	18,028.80	18920.28
Dehydrator Flare Emissions	548.45	--	9.25E-04	548.45	548.73
Facility Flare Emissions	20,357.91	108.01	3.61E-02	20,465.96	23068.96
Equipment Leak Emissions	4.28	73.13	--	77.42	1832.63
Natural Gas Pneumatic Device Venting Emissions	5.50E-01	9.39	--	9.94	235.30
Natural Gas Driven Pneumatic Pump Venting Emissions	13.60	232.22	--	245.82	5819.05
Malfunction Emissions	2.92	49.88	--	52.80	1249.95
Storage Tank Emissions	1.38	14.83	--	16.21	372.06
Total	221,108.90	1,833.38	3.79E-01	222,942.66	267,056.42

### Engine & Turbine Exhaust Emissions

Unit Numbers	Description	Emission Factors			Emission Rates		
		CO2, kg/MMBtu	CH4, kg/MMBtu	N2O, kg/MMBtu	CO2, tpy	CH4, tpy	N2O, tpy
1	Solar Centaur 3830	53.06	1.00E-03	1.00E-04	20,508.26	3.87E-01	3.87E-02
2	Solar Centaur 3830	53.06	1.00E-03	1.00E-04	20,508.26	3.87E-01	3.87E-02
3	Solar Centaur 3830	53.06	1.00E-03	1.00E-04	20,508.26	3.87E-01	3.87E-02
4	Solar Centaur 3830	53.06	1.00E-03	1.00E-04	20,508.26	3.87E-01	3.87E-02
5	Solar Centaur 3830	53.06	1.00E-03	1.00E-04	20,508.26	3.87E-01	3.87E-02
6	Solar Centaur 3830	53.06	1.00E-03	1.00E-04	20,508.26	3.87E-01	3.87E-02
7	Solar Saturn T1200	53.06	1.00E-03	1.00E-04	7,555.67	1.42E-01	1.42E-02
8	Solar Saturn T1200	53.06	1.00E-03	1.00E-04	7,555.67	1.42E-01	1.42E-02
19	Solar Centaur 3016	53.06	1.00E-03	1.00E-04	16,133.92	3.04E-01	3.04E-02
20	Solar Centaur 3016	53.06	1.00E-03	1.00E-04	16,133.92	3.04E-01	3.04E-02
76	Kohler 8.5RES Generator	53.06	1.00E-03	1.00E-04	4.28	8.07E-05	8.07E-06
	Total				170,433.00	3.21	3.21E-01

The emissions factors are taken from 40 CFR 98, Subpart C, Tables C-1 & C-2

Emission Rates (tpy) = kg/MMBtu x 2.2 lb/kg x MMBtu/yr / 2,000 lb/ton

Unit Numbers	Description	Fuel Types	Operating Times, hr/yr	LHV Design Heat Rates, MMBtu/hr	HHV	
					Design Heat Rates, MMBtu/hr	Fuel Usages, MMBtu/yr
1	Solar Centaur 3830	Nat. Gas	8,760	36.10	40.11	351,373
2	Solar Centaur 3830	Nat. Gas	8,760	36.10	40.11	351,373
3	Solar Centaur 3830	Nat. Gas	8,760	36.10	40.11	351,373
4	Solar Centaur 3830	Nat. Gas	8,760	36.10	40.11	351,373
5	Solar Centaur 3830	Nat. Gas	8,760	36.10	40.11	351,373
6	Solar Centaur 3830	Nat. Gas	8,760	36.10	40.11	351,373
7	Solar Saturn T1200	Nat. Gas	8,760	13.30	14.78	129,453
8	Solar Saturn T1200	Nat. Gas	8,760	13.30	14.78	129,453
19	Solar Centaur 3016	Nat. Gas	8,760	28.40	31.56	276,427
20	Solar Centaur 3016	Nat. Gas	8,760	28.40	31.56	276,427
76	Kohler 8.5RES Generator	Nat. Gas	500	0.13	0.15	73

The fuel types and operating times are provided by Harvest

The LHV design heat rates are taken from manufacturers data

HHV Design Heat Rates (MMBtu/hr) = LHV Design Heat Rates (MMBtu/hr) / 0.9 LHV/HHV

HHV Fuel Usages (MMBtu/yr) = HHV Design Heat Rates (MMBtu/hr) x hr/yr

# Section 10

## Written Description of the Routine Operations of the Facility

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**A written description of the routine operations of the facility.** Include a description of how each piece of equipment will be operated, how controls will be used, and the fate of both the products and waste generated. For modifications and/or revisions, explain how the changes will affect the existing process. In a separate paragraph describe the major process bottlenecks that limit production. The purpose of this description is to provide sufficient information about plant operations for the permit writer to determine appropriate emission sources.

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The Kutz Canyon Processing Plant is a natural gas processing facility designed to remove ethane and heavier hydrocarbons from natural gas. With this application, the Kutz I Plant (which removes the heavier hydrocarbons using a refrigerated lean oil absorption process) is being retired and removed from the permit. The Kutz II Plant removes the heavier hydrocarbons using a cryogenic process. A process flow diagram is provided in Section 4.

The plant typically operates 8,760 hours per year.

### **Kutz II**

The Kutz II Plant is the cryogenic turboexpander plant installed in 1975 and is supplied with inlet natural gas from the Dakota Basin and San Juan Basin Fields. Compression of the gas is provided using four Solar Centaur 3830 compressor turbines (Units 1-4).

After compression, the inlet gas is cooled and routed through an amine contactor (Unit 75), where CO<sub>2</sub> is removed. Rich amine from the contactor is regenerated in a still, and the still overhead stream (acid gas) vents to atmosphere. A hot oil heater (Unit 27) provides heat for the still as well as heating oil for other plant operations.

The inlet natural gas then passes through one of two mole sieve dehydration towers (one tower processes natural gas while the other cools and regenerates). The towers are regenerated using a regeneration heater (Unit 25). A fan bay is used to cool the gas (allowing liquids to be dropped out).

After passing through the mole sieve, inlet gas is routed to the turboexpander where the heavier hydrocarbons are removed. Compressed refrigerant is provided using two Solar Saturn turbines (Units 7 & 8). Product streams from the expander are routed through the demethanizer, where methane is recompressed using two Solar Centaur turbines (Units 5 & 6) and sent to the residue gas pipeline. Up to ninety percent of the ethane is removed and sent to products storage. Heat for the demethanizer is provided by a hot oil heater (Unit 27).

Liquid product from the demethanizer is cooled and stored in the appropriate tanks.

The mole sieve is regenerated using a slipstream of residue gas to heat and extract the water collected in the regenerator towers. This wet residue gas is then dehydrated in a TEG dehydrator (Unit 77a/b) before being reinjected into the residue gas sales line.

### **Other Equipment**

The Kutz Chaco dehydrator (Unit 35a) is controlled by a Zeeco flare (Unit 36). A loading rack is used to receive propane from trucks. Condensate is hauled off-site by truck (Unit 38). The plant is also equipped with three cooling towers (Units 39-41).

Electrical power for the plant is provided using two generators. Each generator is powered using a Solar Centaur 3016 turbine (Units 19 & 20). The generators typically operate a combined 8,760 hours per year. The plant will also be equipped with a standby generators: and a Kohler 8.5RES (Unit 76). The Caterpillar will provide general

power to the facility in the event the main generators are off-line. The Kohler will provide power to the batteries in the backup UPS system in the event the main generators are off-line and the UPS system needs charging to remain functional.

The plant is equipped with a process flare (Unit 28). Safety relief valves located at various points around the plant vent to the flare. In the case of an emergency blowdown or over pressure situation, natural gas products are vented to the flare. The plant inlet gas scrubber dump valves are also vented to the flare.

There are two emergency fire pumps located at the plant. One pump is powered by a Cummins V-504-F2 engine (Unit 32), and one is powered by a Ford Industrial 428 engine (Unit 33). The pumps only operate during emergencies and periodic maintenance.

The plant is also equipped with miscellaneous heaters and liquid storage tanks.

**STATE REGULATIONS APPLICABILITY CHECKLIST**

<b>STATE REGULATIONS CITATION</b>	<b>Title</b>	<b>Applies? Enter Yes or No</b>	<b>Unit(s) or Facility</b>	<b>JUSTIFICATION: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)</b>
20.2.1 NMAC	General Provisions	Yes	Facility	This regulation is applicable because it establishes procedures for protecting confidential information, procedures for seeking a variance, NMAQB's authority to require sampling equipment, severability, and the effective date for conformance with the NMACs, and prohibits the violation of other requirements in attempting to comply with the NMACs.
20.2.3 NMAC	Ambient Air Quality Standards NMAAQS	Yes	Facility	This is a State Implementation Plan (SIP) approved regulation that limits the maximum allowable concentrations of Total Suspended Particulates, Sulfur Compounds, Carbon Monoxide and Nitrogen Dioxide. These requirements are not applicable under 20.2.70 NMAC (see 20.2.3.9 NMAC).
20.2.7 NMAC	Excess Emissions	Yes	Facility	This regulation is applicable because it prohibits excess emissions unless proper notification procedures are followed.
20.2.8 NMAC	Emissions Leaving New Mexico	Yes	Facility	This regulation is applicable because it establishes prohibitions on the release of pollutants that cross New Mexico State boundaries.
20.2.14 NMAC	Particulate Emissions from Coal Burning Equipment	No	N/A	This regulation is not applicable because the facility does not burn coal (see 20.2.14.6 NMAC).
20.2.18 NMAC	Oil Burning Equipment - Particulate Matter	No	N/A	This regulation is not applicable because the facility does not burn oil (see 20.2.18.6 NMAC).
20.2.31 NMAC	Coal Burning Equipment – Sulfur Dioxide	No	N/A	This regulation is not applicable because the facility does not burn coal (see 20.2.31.6 NMAC).
20.2.32 NMAC	Coal Burning Equipment – Nitrogen Dioxide,	No	N/A	This regulation is not applicable because the facility does not burn coal (see 20.2.32.6 NMAC).
20.2.33 NMAC	Gas Burning Equipment - Nitrogen Dioxide	No	N/A	This regulation is not applicable because the heat input to external gas burning equipment at the plant does not exceed the trigger level (one million MMBtu/year) established by the regulation (see 20.2.33.108 NMAC).
20.2.34 NMAC	Oil Burning Equipment: NO <sub>2</sub>	No	N/A	This regulation is not applicable because the facility does not burn oil (see 20.2.34.6 NMAC).
20.2.35 NMAC	Natural Gas Processing Plant – Sulfur	No	N/A	This regulation is not applicable because sulfur emissions from the plant are below the applicability thresholds established in the regulation (see 20.2.35.109 & 110 NMAC).
20.2.38 NMAC	Hydrocarbon Storage Facility	No	N/A	This regulation is not applicable because the facility does not store hydrocarbons containing hydrogen sulfide, nor is there a tank battery storing hydrocarbon liquids with a capacity greater than or equal to 65,000 gallons (see 20.2.38.109-112 NMAC).
20.2.39 NMAC	Sulfur Recovery Plant - Sulfur	No	N/A	This regulation is not applicable because the facility is not equipped with a sulfur recovery plant (see 20.2.39.6 NMAC).
20.2.61.109 NMAC	Smoke & Visible Emissions	Yes	1-8, 19-20, 25, 27, 35b, 36, 76 & 77b	This regulation is applicable because the facility is equipped with stationary combustion sources. Emissions from these combustion sources are limited to less than 20% opacity (see 20.2.61.109 NMAC). The regulation is not applicable to the Title V insignificant heaters (see 20.2.61.111.D).
20.2.70 NMAC	Operating Permits	Yes	Facility	This regulation is applicable because the facility is a Title V major source of NO <sub>x</sub> , CO, VOC, and HAPs (see 20.2.70.200 NMAC).



<u>STATE REGULATIONS CITATION</u>	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.71 NMAC	Operating Permit Fees	Yes	Facility	This regulation is applicable because the facility is subject to 20.2.70 NMAC (see 20.2.71.109 NMAC).
20.2.72 NMAC	Construction Permits	Yes	Facility	This regulation is applicable because the facility has potential emission rates (PER) greater than 10 pph or greater than 25 tpy for pollutants subject to a state or federal ambient air quality standards (see 20.2.72.200.A NMAC).
20.2.73 NMAC	NOI & Emissions Inventory Requirements	Yes	Facility	The Notice of Intent portion of this regulation does not apply because the facility is subject to 20.2.72 NMAC (see 20.2.73.200.A(4) NMAC). The emissions inventory portion of this regulation is applicable since the facility is a Title V major source (see 20.2.73.300.B(1) & (2) NMAC).
20.2.74 NMAC	Permits – Prevention of Significant Deterioration (PSD)	Yes	Facility	This regulation is applicable because the facility is a PSD major source, the NOX, CO and VOC potential to emit are each greater than 250 tpy (see 20.2.74.200 NMAC). Note, however, that this application is not a PSD application (it is a Title V application).
20.2.75 NMAC	Construction Permit Fees	Yes	Facility	This regulation is applicable because the facility is subject to 20.2.72 NMAC (see 20.2.75.10 & 11 NMAC).
20.2.77 NMAC	New Source Performance	Yes	19, 20, 35a, 76 & 77a	This regulation is applicable because it adopts by reference the federal NSPS codified in 40 CFR 60. The facility is subject to 40 CFR 60, Subparts A, GG, KKK, JJJ & OOOOa.
20.2.78 NMAC	Emission Standards for HAPS	No	N/A	This regulation is not applicable because it incorporates by reference the NESHAPs codified under 40 CFR 61. The facility is not subject to 40 CFR 61.
20.2.79 NMAC	Permits – Nonattainment Areas	No	N/A	This regulation is not applicable because the facility is neither located in nor has a significant impact on a nonattainment area (see 20.2.79.109 NMAC).
20.2.80 NMAC	Stack Heights	Yes	1-8, 19-20, 25, 27, 32, 33, 35b, 36, 76 & 77b	This regulation is applicable because it establishes guidelines for the selection of an appropriate stack height for the purposes of atmospheric dispersion modeling (see 20.2.80.6 NMAC).
20.2.82 NMAC	MACT Standards for source categories of HAPS	Yes	25, 27, 32, 33, 35a, 76 & 77a	This regulation is applicable because it adopts by reference the federal MACT Standards for source categories codified in 40 CFR 63. The affected units at the facility are subject to 40 CFR 63, Subparts A, HH, ZZZZ & DDDDD.

### Federal Regulations

Federal standards and requirements are embodied in Title 40 (Protection of the Environment), Subchapter C (Air Programs) of the CFR, Parts 50 through 99.

### FEDERAL REGULATIONS APPLICABILITY CHECKLIST

<u>FEDERAL REGULATIONS CITATION</u>	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
40 CFR 50	NAAQS	Yes	Facility	This regulation applies because the facility is subject to 20.2.70, 20.2.72 and 20.2.74 NMAC.

<u>FEDERAL REGU- LATIONS CITATION</u>	<b>Title</b>	<b>Applies? Enter Yes or No</b>	<b>Unit(s) or Facility</b>	<b>JUSTIFICATION:</b>
40 CFR 52	Approval and Promulgation of Implementation Plans	Yes	Facility	40 CFR 52.21 <i>Prevention of Significant Deterioration of Air Quality</i> is applicable because the plant is a major Prevention of Significant Deterioration source. The remainder of 40 CFR 52 is not applicable because it addresses approval and promulgation of implementation plans.
NSPS 40 CFR 60, Subpart A	General Provisions	Yes	19, 20, 35a, 76 & 77a	This regulation applies because Subparts A, GG, KKK, JJJJ & OOOOa apply. (see §60.1(a)).
NSPS 40 CFR 60, Subpart K	Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978	No	N/A	This regulation is not applicable because the petroleum liquids storage tanks at the plant have capacities less than the minimum applicability threshold capacity of 40,000 gallons (see §60.110(a)). Note that the regulation does not apply to pressure vessels which are designed to operate in excess of 15 psig (see §60.111).
NSPS 40 CFR 60, Subpart Ka	Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984	No	N/A	This regulation is not applicable because the storage tanks at the plant have capacities less than the minimum applicability threshold capacity of 40,000 gallons (see §60.110(a)). Note that the regulation does not apply to pressure vessels which are designed to operate in excess of 15 psig (see §60.111a).
NSPS 40 CFR 60, Subpart Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984	No	N/A	This regulation is not applicable because the storage tanks at the plant have capacities less than the minimum applicability threshold capacity of 19,812 gallons, and/or were installed prior to the applicability date, and/or contain condensate prior to custody transfer (see §60.110b(a) & §60.110b(d)(4)). Note that T6528 & T6529 contain condensate prior to custody transfer. Also note that the regulation does not apply to pressure vessels which are designed to operate in excess of 15 psig (see §60.110b(d)(2)).
NSPS 40 CFR 60 Subpart GG	Standards of Performance for Stationary Gas Turbines	Yes	19 & 20	This regulation is applicable because Units 19 & 20 were constructed after the applicability date of October 3, 1977 and have a peak input load greater than the applicability threshold of 10.15 MMBtu/hr (see §60.330). They must comply with the NOX limits of §60.332 and SO2 limits of §60.333.  The regulation does not apply to the remaining turbines (Units 1-8) as they were constructed before the applicability date.

<u>FEDERAL REGU- LATIONS CITATION</u>	<b>Title</b>	<b>Applies? Enter Yes or No</b>	<b>Unit(s) or Facility</b>	<b>JUSTIFICATION:</b>
NSPS 40 CFR 60, Subpart KKK	Standards of Performance for Leaks of VOC from Onshore Natural Gas Processing Plant for Which Construction, Reconstruction, or Modification Commenced After January 20, 1984, and on or Before August 23, 2011	Yes	35a	This regulation is applicable because Units 35a is in VOC service and was modified after the applicability date of January 20, 1984 and before August 23, 2011 (see §60.630).
NSPS 40 CFR 60, Subpart LLL	Standards of Performance for SO2 Emissions From Onshore Natural Gas Processing for Which Construction, Reconstruction, or Modification Commenced After January 20, 1984, and on or Before August 23, 2011	No	N/A	This regulation is not applicable because the facility is not equipped with a sweetening unit or sweetening unit followed by a sulfur recovery unit (see §60.640).
NSPS 40 CFR 60, Subpart IIII	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	No	N/A	This regulation does not apply because the stationary CI ICE (Units 32-34) commenced construction prior to July 11, 2005 (see §60.4200(a)).
NSPS 40 CFR 60, Subpart JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	Yes	76	This regulation applies to Unit 76. The engine must comply with the standards in §60.4231(a).
NSPS 40 CFR 60, Subpart KKKK	Standards of Performance for Stationary Combustion Turbines	No	N/A	This regulation is not applicable because the turbines at the plant were not constructed, and have not been modified or reconstructed, after the applicability date of February 18, 2005 (see §60.4305(a)).
NSPS 40 CFR 60, Subpart OOOO	Standards of Performance for Crude Oil and Natural Gas Production, Transmission, and Distribution for which construction, modification or reconstruction commenced after August 23, 2011 and on or before September 18, 2015	No	N/A	This regulation does not apply because the facility is not equipped with “affected” sources that are constructed, modified, or reconstructed after Aug 23, 2011 and on or before September 18, 2015: gas wells, centrifugal or reciprocating compressors, pneumatic controllers, and storage vessels (see §60.5365).

<u>FEDERAL REGU- LATIONS CITATION</u>	<b>Title</b>	<b>Applies? Enter Yes or No</b>	<b>Unit(s) or Facility</b>	<b>JUSTIFICATION:</b>
NSPS 40 CFR 60, Subpart OOOa	Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015	No	77a	This regulation will apply to pneumatic controllers associated with Unit 77a since the unit was constructed after September 18, 2015 (see 60.5365a).  Otherwise, this regulation does not apply because the remainder of the facility is not equipped with "affected" sources that were constructed, modified, or reconstructed after September 18, 2015: gas wells, centrifugal or reciprocating compressors, pneumatic controllers, storage vessels, pneumatic pumps, and equipment leaks (see §60.5365a).
NESHAP 40 CFR 61, Subpart A	General Provisions	No	N/A	This regulation does not apply, because none of the other 40 CFR Part 61 subparts apply (see §61.1(c)).
NESHAP 40 CFR 61, Subpart V	National Emission Standards for Equipment Leaks (Fugitive Emission Sources)	No	N/A	This regulation does not apply as none of the equipment at the plant is in VHAP service.  The provisions of this subpart apply to each of the following sources that are intended to operate in volatile hazardous air pollutant (VHAP) service: pumps, compressors, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, connectors, surge control vessels, bottoms receivers, and control devices or systems required by this subpart (see §61.240(a)). VHAP service means a piece of equipment either contains or contacts a fluid (liquid or gas) that is at least 10 percent by weight of VHAP. VHAP means a substance regulated under this subpart for which a standard for equipment leaks of the substance has been promulgated (see §61.241).
MACT 40 CFR 63, Subpart A	General Provisions	Yes	25, 27, 32, 33, 35a, 76 & 77a	This regulation applies because 40 CFR 63, Subparts HH, ZZZZ & DDDDD apply (see §63.1(b)).
MACT 40 CFR 63, Subpart M	National Emission Standard for Asbestos	No	N/A	The subpart includes standards for minimizing asbestos emissions from several operations, including demolition and renovation activities. This regulation is not applicable because there are no existing or planned activities at this facility that trigger applicability.
MACT 40 CFR 63, Subpart HH	National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities	Yes	35a & 77a	This regulation is applicable because the plant is equipped with dehydrators (see §63.760(b)). The dehydrators must comply with the standards in §63.765. The plant does not contain storage vessels with the potential for flashing losses or compressors or ancillary equipment in volatile HAP service as defined by the subpart, thus these portions of the regulation are not applicable (see §63.761).
MACT 40 CFR 63, Subpart HHH	National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities	No	N/A	This regulation does not apply as the facility is not a natural gas transmission and storage facility as defined by the subpart (see §63.1270(a)).
MACT 40 CFR 63, Subpart YYYY	National Emission Standards for Hazardous Air Pollutants From Stationary Combustion Turbines	No	N/A	This regulation is not applicable because none of the turbines at the plant were constructed after the applicability date of January 14, 2003 (see §63.6090(a)(1) & (b)(4)).

<u>FEDERAL REGU- LATIONS CITATION</u>	<b>Title</b>	<b>Applies? Enter Yes or No</b>	<b>Unit(s) or Facility</b>	<b>JUSTIFICATION:</b>
MACT 40 CFR 63, Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE MACT)	Yes	32, 33 & 76	This regulation applies because the plant is a major HAP source equipped with stationary RICE. Units 32 & 33 must meet the requirements of 63.6640(f). Unit 76 must meet the requirements of this subpart by meeting the requirements of 40 CFR Part 60 Subpart JJJJ, no other Part 63 requirements apply (see §63.6590(c)(6)).
MACT 40 CFR 63, Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers & Process Heaters	Yes	25& 27	This regulation is applicable because the plant is a major HAP source equipped with process heaters as defined by the subpart (see §63.7485). The units must comply with the work practice standards in Table 3 (see §63.7500).
MACT 40 CFR 63, Subpart CCCCC	National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities	No	N/A	This regulation is not applicable to the gasoline storage tank because the plant is a major HAP source (see §63.1111(a)).
MACT 40 CFR 63, Subpart JJJJJ	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources	No	N/A	This regulation is not applicable because it does not apply to gas fired boilers (see §63.11195(e)).
40 CFR 64	Compliance Assurance Monitoring	No	N/A	This regulation is not applicable because Units 35a & 77a are the only units at the plant using control devices to achieve compliance with emission limits or standards where pre control emissions equal or exceed the major source threshold (see §64.2(a)). Units 35a and 77a are not subject to this regulation, as they must comply with the emission limits and standards of 40 CFR 63, Subpart HH (see 64.2(b)(1)(i)).
40 CFR 68	Chemical Accident Prevention	No	N/A	This regulation is not applicable because the facility does not store any of the affected chemicals in quantities exceeding the thresholds (see §68.10(a)).
40 CFR 72	Acid Rain	No	N/A	This regulation is not applicable because the facility is not an acid rain source.
40 CFR 82	Protection of Stratospheric Ozone	No	N/A	This regulation is not applicable because the facility does not produce, manufacture, transform, destroy, import, or export ozone-depleting substances; does not maintain or service motor vehicle air conditioning units or refrigeration equipment; and does not sell, distribute, or offer for sale or distribution any product that contains ozone-depleting substances.

# Section 17

## Compliance Test History

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

To show compliance with existing NSR permit conditions, you must submit a compliance test history. The table below provides an example.

**Compliance Test History Table**

Unit No.	Test Description	Test Date
1	Tested in accordance with operating permit for NOx, CO & VOC	09/29/2020
2	Tested in accordance with operating permit for NOx, CO & VOC	09/30/2020
3	Tested in accordance with operating permit for NOx, CO & VOC	09/29/2020
4	Tested in accordance with operating permit for NOx, CO & VOC	06/20/2018
5	Tested in accordance with operating permit for NOx, CO & VOC	09/29/2020
6	Tested in accordance with operating permit for NOx, CO & VOC	09/29/2020
7	Tested in accordance with operating permit for NOx, CO & VOC	09/30/2020
8	Tested in accordance with operating permit for NOx, CO & VOC	09/30/2020
19	Tested in accordance with operating permit for NOx, CO & VOC	12/10/2020
20	Tested in accordance with operating permit for NOx, CO & VOC	09/29/2020